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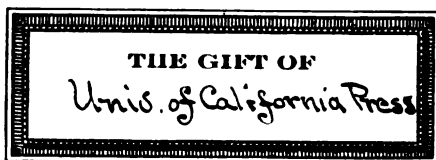
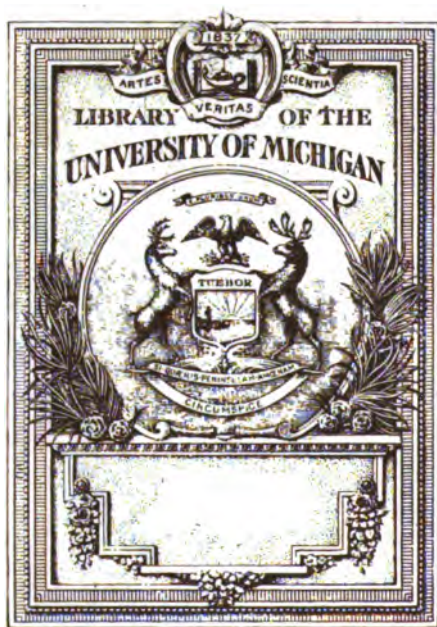
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UNIVERSITY OF CALIFORNIA

REGISTER

1919-20

WITH ANNOUNCEMENTS FOR 1920-21

UNIVERSITY OF CALIFORNIA PRESS

BERKELEY

1920

25

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CIRCULAR OF INFORMATION
CONCERNING THE
ACADEMIC DEPARTMENTS

AUGUST, 1920

University of California Bulletin

THIRD SERIES. Vol. XIV, No. 2

CIRCULAR OF INFORMATION

CONCERNING THE

ACADEMIC DEPARTMENTS

AUGUST, 1920

**UNIVERSITY OF CALIFORNIA PRESS
BERKELEY**

1920

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Letters of inquiry concerning the University should be addressed to the *Recorder of the Faculties, Berkeley, California*.

For the list of bulletins of information concerning the several colleges and departments see page 2 of the cover.

In writing for information please mention the college, department, or study in which you are chiefly interested.

Attention is called to the calendar on page 5, and especially to the dates for the forwarding of applications, for registration, and for the beginning of instruction.

CALENDAR

Stated meetings of the Regents are held at 2 p.m. on the second Tuesday of each month and on the day preceding Commencement Day, in May of each year, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The July meeting is usually dispensed with. The Finance Committee meets at 11 a.m. on the first and third Tuesdays of each month, and the Committee on Grounds and Buildings at 2:30 p.m. on the second Friday before the second Tuesday of each month.

University meetings occur on alternate Friday mornings during the academic year at 11:10 o'clock.

1920

- Aug. 2, Monday** Applications for admission, and credentials of the recommended graduates of accredited high schools to be filed with the Recorder of the Faculties. Recommendations for admission from accredited schools in California (with the applications for admission to regular undergraduate standing) to be on file with the Recorder of the Faculties by this date. Other credentials should be on file earlier.*
- Aug. 5, Thursday** } Matriculation examinations at Berkeley, for the Academic Colleges,
Aug. 10, Tuesday } the College of Dentistry, the California College of Pharmacy (three- and four-year courses), and Hastings College of the Law.
- Aug. 13, Friday** } All officers of instruction in the colleges at Berkeley keep office
Aug. 14, Saturday } hours each day, from 9 a.m. to 12 m. Also on Friday and Monday, from 2 to 4:30 p.m.
- Aug. 13, Friday** } Admission certificates issued to intrants; registration of new
Aug. 14, Saturday } students, graduate and undergraduate, from 8:30 a.m. to 4:30 p.m., in the grove northwest of California Hall.
- Aug. 16, Monday** Registration of old students, graduate and undergraduate, 8:30 a.m. to 5 p.m., in the grove northwest of California Hall.
- Aug. 17, Tuesday** Instruction in all classes begins at 8:10 a.m.
- Sept. 1, Wednesday** Last day for filing applications and programmes in candidacy for professional higher degrees, masters' degrees, and teachers' recommendations to be conferred December, 1920; office of the Dean of the Graduate Division, 209 California Hall. Applications in candidacy for the degree of Doctor of Philosophy to be conferred May, 1921, should be filed not later than September 1. All signatures required upon these applications must be secured in advance.
- Oct. 15, Friday** Chairmen of committees in charge of candidates for Ph.D. file with the Dean of the Graduate Division semi-annual report of work completed to date.
- Nov. 3, Wednesday** Last day for filing in final form with the instructors in charge, theses for Ph.D. to be conferred December, 1920.
- Nov. 24, Wednesday** Last day for filing in final form with the instructors in charge, theses for masters' degrees to be conferred December, 1920.
- Nov. 25, Thursday** }
Nov. 27, Saturday } Thanksgiving recess of three days.
Nov. 29, Monday } Last day for applications for the accrediting of secondary schools for 1920-21.

* Importance of early application: To give time for necessary correspondence applications and credentials should be forwarded to the Recorder of the Faculties as soon as they are obtainable from the school authorities.

Dec. 8, Wednesday Dec. 17, Friday	}	Mid-year examinations in the Academic Colleges.
Dec. 20, Monday Jan. 8, Saturday		
	}	Christmas vacation in the Academic Colleges, Hastings College of the Law, the College of Dentistry, and the California College of Pharmacy.
1921		
Jan. 4, Tuesday		Applications for admission in January and applications for cards of admission to the matriculation examinations in January, to be filed.
Jan. 4, Tuesday Jan. 8, Saturday	}	Examinations in the Academic Colleges for the removal of matriculation deficiencies.
Jan. 10, Monday		
		Registration of students in the Academic Colleges for courses of the second half-year.
Jan. 11, Tuesday		Instruction begins at 8:10 a.m.
Jan. 26, Wednesday		Last day for filing applications and programmes in candidacy for professional higher degrees, masters' degrees, and teachers' recommendations to be conferred May, 1921; office of the Dean of the Graduate Division, 209 California Hall. All signatures required upon these applications must be secured in advance.
Mar. 1, Tuesday		Last day for applications for graduate scholarships for 1921-22.
Mar. 15, Tuesday		Last day for applications for undergraduate scholarships for 1921-22.
Mar. 15, Tuesday		Chairmen of committees in charge of candidates for Ph.D. file with the Dean of the Graduate Division semi-annual report of work completed to date.
Mar. 23, Wednesday		Charter Day. Exercises in the Greek Theatre or Harmon Gymnasium. Faculty Research Lecture.
Mar. 26, Saturday		Last day for filing in final form with the instructors in charge, theses for Ph.D. to be conferred May, 1921.
Apr. 20, Wednesday		Last day for filing in final form with the instructors in charge, theses for masters' degrees to be conferred May, 1921.
April 27, Wednesday May 6, Friday	}	Annual examinations in the Academic Colleges. Examinations for seniors begin Thursday, April 21.
May 9, Monday		
May 11, Wednesday		Class Day.
May 11, Wednesday		The Fifty-eighth Commencement.
June 20, Monday July 30, Saturday	}	Summer Sessions of the Academic Colleges, in Berkeley and Los Angeles.

REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

REGENTS EX OFFICIO

HIS EXCELLENCY WILLIAM D. STEPHENS
Governor of California and President
of the Regents
Sacramento

CLEMENT CALHOUN YOUNG, B.L.
Lieutenant-Governor of California
Sacramento (276 Post st, San Francisco)

HENRY W. WRIGHT
Speaker of the Assembly
1009 Fair Oaks av, South Pasadena

WILL C. WOOD
State Superintendent of Public Instruction
Sacramento

GEORGE C. ROEDING
President of the State Agricultural
Society
Roeding Place, Fresno

BYRON MAUZY
President of the Mechanics' Institute
250 Stockton st, San Francisco

WARREN GREGORY, A.B., LL.B.
President of the Alumni Association
Merchants Exchange bldg, San Francisco

DAVID PRESCOTT BARROWS, Ph.D., LL.D.
President of the University
217 California Hall, Berkeley

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the Board.

ARTHUR WILLIAM FOSTER, (1932)
Southern Pacific bldg, San Francisco

GARRETT WILLIAM McENERNEY (1936)
2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG (1932)
1521 Van Ness av, San Francisco

GUY CHAFFIN EARL, A.B. (1934)
14 Sansome st, San Francisco

JOHN ALEXANDER BRITTON (1930)
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1922)
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A., S.T.B. (1928)
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)
637 Wilton pl, Los Angeles

JAMES MILLS (1926)
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1936)
Fresno

MORTIMER FLEISHHACKER (1934)
Anglo-California Trust Company, San Francisco

GEORGE I. COCHRAN, LL.D. (1930)
501 West Sixth st, Los Angeles

Mrs. MARGARET SARTORI (1922)
725 West Twenty-eighth st, Los Angeles

Committees of the Regents

OFFICERS OF THE REGENTS

His Excellency William Dennison
Stephens
President
Sacramento

Mortimer Fleishhacker,
Treasurer
Anglo-California Trust Company, San
Francisco

Comptroller, Secretary of Regents,
and Land Agent
220 California Hall, Berkeley

James M. Mannon, Jr., LL.B.
Attorney
1107 Merchants Exchange bldg. San
Francisco

Robert Gordon Sproul, B.S.
Assistant Comptroller, Assistant Sec-
retary, and Assistant Land Agent
220 California Hall, Berkeley

STANDING COMMITTEES OF THE BOARD OF REGENTS
FOR THE YEAR 1920-21*

Agriculture:

Regents Foster, Roeding, Dickson,
Mills, Cochran, and Taussig.

Committee on Conference with Faculty:

Regents Moffitt, Gregory, Britton,
Taussig, Rowell, and Ramm.

Endowments:

Regents Crocker, Britton, Mrs. Sar-
tori, Bowles, Cochran, McEnerney,
and Fleishhacker.

Engineering:

Regents Ramm, Fleishhacker, Brit-
ton, Roeding, and Bowles.

Executive Committee:

This committee consists of the chair-
men of all standing committees
and the President of the Alumni
Association.

Finance:

Regents Earl, Foster, Britton, Moffitt,
and Taussig.

Grounds and Buildings:

Regents Britton, Wheeler, Bowles,
Dickson, and Fleishhacker.

Jurisprudence:

Regents McEnerney, Cochran, Wheel-
er, Gregory, and Young.

Letters and Science:

Regents Rowell, Wheeler, Ramm,
Wood, Gregory, and Mills.

Library, Research and Publications:

Regents Bowles, Moffitt, Mausy,
Gregory, Wood, Earl, and Rowell.

Lick Observatory:

Regents Fleishhacker, McEnerney,
Young, Crocker, Mausy, and
Wright.

*Medical Instruction and University**Hospitals:*

Regents Crocker, Taussig, Britton,
Earl, Moffitt, Ramm, Mrs. Sartori,
and Bowles.

*Southern Branch of the University of
California and Scripps Institution
for Biological Research:*

Regents Dickson, Cochran, Gregory,
Mrs. Sartori, Wood, Rowell, and
Taussig.

Wilmerding School:

Regents Taussig, Earl, Moffitt, and
Mausy.

* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

ADMINISTRATIVE OFFICERS

The offices of the President, Secretary, Comptroller, Recorder, Appointment Secretary, and Manager of the University Press are open from 9 a.m. to 5 p.m. on week days, except on Saturday, when they close at 12 m.

The General Library is open from 8 a.m. to 10 p.m. Monday to Saturday, inclusive; and from 9 a.m. to 5 p.m., Sunday. Vacation schedule: Monday to Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to 5 p.m.; closed Sunday.

The Infirmary is open daily, except Saturday afternoons and Sundays, from 8 to 10 a.m. and from 5 to 6 p.m. for men; and from 10 a.m. to 12 m. and from 8 to 4 p.m. for women. Sundays and holidays (by appointment), 9 to 10 a.m. for men; 10 to 11 a.m. for women. Dentists' hours: daily, excepting Sundays, 9 a.m. to 12 m.; 1 to 5 p.m. Oculists' hours: daily, excepting Thursdays and Sundays, 9 to 10 a.m. for men; 10 to 11 a.m. for women.

IN BERKELEY

President Emeritus of the University:

Benjamin Ide Wheeler
126 Library

President of the University:

David P. Barrows
217 California Hall

Executive Secretary to the President:

Morse A. Cartwright
217 California Hall

Comptroller, Secretary of the Board of Regents, and Land Agent:

220 California Hall

Assistant Comptroller, Assistant Secretary of the Regents, and Assistant Land Agent:

Robert G. Sproul
220 California Hall

*Deans in the Academic Colleges:**The Faculties:*

John C. Merriam
217 California Hall

The Graduate Division:

Armin O. Leuschner
209 California Hall

The Undergraduate Division:

Thomas M. Putnam
207 California Hall

The Summer Sessions:

Walter M. Hart
105 California Hall

Women:

Lucy W. Stebbins
205 California Hall

Letters and Science:

George D. Louderback
201 California Hall.

Agriculture:

*Thomas F. Hunt, *Dean*
Walter Mulford, *Director of Resident Instruction and Acting Dean*
111 Agriculture Hall
Clarence M. Haring, *Director of Experiment Station*
110 Agriculture Hall

Mechanics:

Clarence L. Cory
88 Mechanics Building

Mining:

Frank H. Probert
132 Hearst Mining Building

Civil Engineering:

Charles Derleth, Jr.
204 Civil Engineering Building

Chemistry:

Gilbert N. Lewis
108 Gilman Hall

Commerce:

Henry R. Hatfield
22 Wheeler Hall.

Director of the School of Architecture:

John Galen Howard
Architecture Building

Director of the School of Education:

Alexis F. Lange
315 Library

Director of the School of Jurisprudence:

William Carey Jones
212 Boalt Hall of Law

Recorder of the Faculties:

James Sutton
204 California Hall

University Examiner:

B. M. Woods (to Dec. 31, 1920)
201A California Hall

University Physician:

Robert T. Legge
Infirmary

* Absent on leave, 1920-21.

Administrative Officers

ADMINISTRATIVE OFFICERS IN BERKELEY—(Continued)

Physician for Women:
 Ruby L. Cunningham
 Infirmary

Director of University Extension:
 Leon J. Richardson
 801 California Hall

Director of the Greek Theatre:
 Samuel J. Hume
 804 California Hall

Appointment Secretary:
 Mrs. May L. Cheney (absent on leave
 to Sept. 30, 1920)
 Penelope McEntyre, Acting
 102 California Hall

Librarian:
 Harold L. Leupp
 Library

Associate Librarian:
 Sidney B. Mitchell
 Library

University Printer:
 Joseph W. Flinn
 Printing Office

Manager of the University Press:
 Oliver M. Washburn
 University Press

Superintendent of Grounds and Buildings:
 E. A. Hugill
 Superintendent's Office

Alumni Secretary:
 Rudolph E. Bosshard
 118 California Hall

AT MOUNT HAMILTON

Director of the Lick Observatory:
 William W. Campbell
 Lick Observatory, Mount Hamilton

IN SAN FRANCISCO

Treasurer of the Regents:
 Mortimer Fleishhacker
 Anglo-California Trust Company

Attorney for the Regents:
 J. M. Mannon, Jr.
 Merchants Exchange Building

California School of Fine Arts—
Dean: E. Spencer Macky
Director: Lee F. Randolph
 California and Mason sts

Hastings College of the Law—
Dean: Maurice E. Harrison
 City Hall
Registrar: George J. Martin
 928 Pacific Building

**Medical School and Hospitals—*
Dean: ———

Director of Hospitals: W. E. Musgrave

Secretary of the Faculty: L. S. Schmitt

Fourth and Parnassus avs

George Williams Hooper Foundation for Medical Research—

Director: George H. Whipple
 Parnassus av and Arguello blvd

College of Dentistry—

Dean: Guy S. Millberry
 Parnassus av and Arguello blvd

California College of Pharmacy—

Dean: Franklin T. Green
 Second and Parnassus avs

Extension Division—Office: 140 Kearny st

IN LOS ANGELES

†*Los Angeles Medical Department—*
Dean: George H. Kress
 245 Bradbury Building

Extension Division—
Representative in Southern California:
 Miss Nadine Crump
 Metropolitan Building

Southern Branch of the University of California—

Director: Ernest C. Moore

Assistant Director: C. H. Marvin
 Millsbaugh Hall

Dean of the Summer Session: M. E. Deutsch

105 California Hall, Berkeley

* The work of the first year and part of the second year of the Medical School is done in Berkeley.

† Graduate instruction only is offered in the Los Angeles Medical Department.

THE UNIVERSITY

THE UNIVERSITY COMPRISES THE FOLLOWING COLLEGES AND DEPARTMENTS

I. IN BERKELEY

The Colleges of

Letters and Science,
Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, and the United States Agricultural Experiment Station, which includes Stations at Berkeley and Davis, the forestry stations at Chico and Santa Monica, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, "Whitaker's Forest" in Tulare County, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County),

Mechanics,
Mining,
Civil Engineering,
Chemistry.

The Schools of

Architecture,
Education,
Jurisprudence,
Medicine (first and second years).

The University Extension Division (offering instruction wherever classes can be formed, or anywhere in California by correspondence, providing lectures, recitals, motion pictures and other material for visual instruction, etc., giving guidance and suggestions to debating clubs, and offering aid to communities through its Bureau of Information and Social Welfare).

The California Museum of Vertebrate Zoology.

DEPARTMENTS OF INSTRUCTION IN THE COLLEGES AT BERKELEY

Agriculture (including Agricultural Science, Agronomy, Animal Industries, Forestry, Horticulture, and Landscape Gardening), Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Eco-

nomics, Education, English, French, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Italian, Jurisprudence, Latin, Library Science, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Sanskrit, Semitic Languages, Slavic Languages, Social Institutions, Spanish, Zoology.

II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).

III. AT SANTIAGO, CHILE

The D. O. Mills Observatory, a branch of the Lick Observatory.

IV. IN SAN FRANCISCO

California School of Fine Arts,
Hastings College of the Law,
Medical School (third, fourth, and fifth years, including Hospitals),
The George Williams Hooper Foundation for Medical Research,
College of Dentistry,
California College of Pharmacy,
The Museum of Anthropology, Archaeology, and Art.

V. IN LOS ANGELES

Los Angeles Medical Department, graduate instruction only.
Southern Branch of the University.

VI. AT DAVIS

The University Farm School; college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils, and Veterinary Science.

VII. AT RIVERSIDE

The Graduate School of Tropical Agriculture.

VIII. AT LA JOLLA

The Scripps Institution for Biological Research.

IX. AT SWANTON

The Summer School of Surveying.

ORGANIZATION

The University of California is an integral part of the public educational system of the state. As such it completes the work begun in the public schools. Through aid from the state and the United States, and by private gifts, it furnishes facilities for instruction in literature and in science, and in the professions of art, law, medicine, dentistry, and pharmacy. In the colleges of Letters and Science, Commerce, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry these privileges are offered without charge for tuition to all residents of California who are qualified for admission. Non-residents of California are charged a tuition fee of ten dollars each half-year. In the professional colleges, except that of law, tuition fees are charged. The instruction in all the colleges is open to all qualified persons, without distinction of sex. The Constitution of the State provides for the perpetuation of the University, with all its departments.

ADMINISTRATION

The government of the University of California is entrusted to a corporation styled **THE REGENTS OF THE UNIVERSITY OF CALIFORNIA**, consisting of the Governor, the Lieutenant-Governor, the Speaker of the Assembly, the State Superintendent of Public Instruction, the President of the State Board of Agriculture, the President of the Mechanics' Institute of San Francisco, the President of the Alumni Association, and the President of the University, as members *ex officio*, and sixteen other regents appointed by the Governor and approved by the Senate. To this corporation the State has committed the administration of the University, including management of the finances, care of the property, appointment of teachers, and determination of the internal organization in all particulars not fixed by law.

The instruction and government of the students are entrusted to the *Faculties of the several colleges* and to the *Academic Senate*.

The Faculty of each college consists of the President of the University and those professors and instructors, and only those, whose departments are represented in it by required or elective studies.

The Academic Senate consists of the members of the Faculties and the instructors of the University. It holds regular meetings at least twice a year, and is created for the purpose of conducting the general administration of the University, memorializing the Regents, regulating in the first instance the general and special courses of instruction, and receiving and determining all appeals from acts of discipline enforced

by the Faculty of any College; and it exercises such other powers as the regents may confer upon it.

In all matters not expressly delegated to the Senate or to the several Faculties the Regents govern, either directly or through the President or Secretary.

SITE AND CLIMATE OF BERKELEY

The principal seat of the University is at Berkeley, a city of about 56,000 inhabitants, on the eastern shore of San Francisco Bay, directly opposite the Golden Gate. It is thirty-five minutes' ride by train and ferry from San Francisco, and twenty-five minutes' ride by electric car from the business center of Oakland. The site of the University comprises about five hundred and thirty acres, rising at first in gentle and then in bolder slopes from a height of about two hundred feet above the sea level to one of about thirteen hundred feet. It has a superb outlook over the bay and city of San Francisco, the neighboring plains and mountains, the ocean, and the Golden Gate.

Berkeley is a healthful locality; the slope of the town site makes perfect drainage possible.

The climate of Berkeley is one of great uniformity and is exceptionally well suited for university work throughout the year. The summers are cool, making it possible to begin the academic year earlier than in Eastern universities, and thus divide it at the Christmas holidays into two equal half-years. Commencement is usually held about the middle of May.

Extremes of heat and cold are unknown. The average temperatures are about 59 degrees in summer and 48 degrees in winter. Temperatures as high as 85 degrees are of infrequent occurrence and never last more than a few hours. Very low temperatures do not occur; within the last twenty-five years 24.9 degrees was the lowest temperature recorded at the University.

The marked rainy season begins in November and continues through March; although rains may occur in all months except July and August. In the winter rain falls on three or four days in succession, after which a week or more of fine weather follows. On the average, even in winter, less than a third of the whole number of days are rainy. The annual rainfall at Berkeley is about twenty-seven inches.

The prevailing summer wind is from the southwest off the Pacific Ocean. It is cool and damp, seldom attaining a velocity of over fifteen miles an hour. During the winter months easterly winds are common, although a considerable portion of the winds are westerly throughout the year. In winter there is occasionally a strong, cool northwest wind, or a strong north or northeast wind which is dry and warm.

UNDERGRADUATE CURRICULA

There are established at Berkeley seven colleges, in each of which there is an undergraduate curriculum of four years, leading directly, under conditions hereinafter stated, to a bachelor's degree, as follows:

The College of Letters and Science: to the degree of Bachelor of Arts.

The Colleges of Applied Science

to the degree of Bachelor of Science:

- in the College of Commerce;
- in the College of Agriculture—in any one of the following: agricultural science, agronomy, animal industries, forestry, horticulture, landscape gardening;
- in the College of Mechanics—(1) in mechanical engineering, or (2) in electrical engineering, or (3) in marine engineering and naval architecture, or (4) in aerodynamics;
- in the College of Mining—(1) in mining, or (2) in metallurgy, or (3) in economic geology, or (4) in petroleum engineering;
- in the College of Civil Engineering—(1) in railroad engineering, or (2) in sanitary engineering, or (3) in irrigation engineering;
- in the College of Chemistry—(1) in chemistry, or (2) in chemical engineering.

There are permitted, in addition, courses at large and partial courses, not leading directly to any degree, but through each of which, by compliance with the conditions upon which it is conferred, a degree is possibly obtainable.

The University has no preparatory department.

PROFESSIONAL CURRICULA

At Berkeley also are the Schools of

Architecture, leading to the degree of Graduate in Architecture;

Education, leading to the degree of Graduate in Education and to the high school teacher's recommendation;

Jurisprudence, leading to the degree of Juris Doctor;

Medicine, first year and part of the second year of the five-year curriculum leading to M.D. (the remainder of the work is given in San Francisco);

and the curricula in

Public Health—three curricula, each leading to the degree of Graduate in Public Health; two of these are given wholly at Berkeley and the third (for candidates for M.D. and Gr.P.H.) is in part at Berkeley and in part in San Francisco;

Home Economics, leading to the degree of Bachelor of Arts in the College of Letters and Science, with a major subject in Household Art or in Household Science.

The work of the Medical School (except that of the first year and part of the second year, as above), of the California College of Pharmacy, of the Hastings College of the Law, and of the College of Dentistry is

conducted in San Francisco. The first year of work in the Schools of Education and Medicine, the first year of the three-year curriculum in the School of Jurisprudence, the first and second years in the School of Architecture, and the first and second years of the four-year curriculum in Jurisprudence, may be credited towards the degree of Bachelor of Arts in the College of Letters and Science. The work so credited is regarded as academic, rather than as purely professional in character, and the student pursuing this work is enrolled not only in the appropriate school or curriculum but also in the College of Letters and Science, and is subject to all the regulations of that college.

In like manner, students in the several curricula in Public Health may be simultaneously candidates for the professional degree of Gr.P.H. and also for the degree A.B. (College of Letters and Science), B.S. (College of Civil Engineering), or M.D. (Medical School).

GRADUATE COURSES

In all the colleges named above there are provided graduate courses leading to advanced degrees.

STATUS OF STUDENTS

In respect to status, students are classified as graduate and undergraduate, and undergraduates as regular students, students at large, and partial course students, the last being further classified as special students and limited students.

Graduate students are such graduates of the University of California or of other universities, colleges, or like institutions, as may be authorized to pursue advanced or special studies under the direction of a faculty. Such students may or may not be candidates for degrees.

Regular students are those undergraduates who have complied with the requirements for matriculation, and who pursue, or are entitled to pursue, the established curriculum of a college.

Students at large are undergraduates devoting to their studies the full time required of regular students but pursuing purely elective courses. Students at large are subject to all regulations imposed on regular students, except the requirements for a degree, unless otherwise provided.

Special students. See page 31.

Limited students are partial course students to whom, for adequate reasons, less work is permitted, or assigned, than is required of regular students.

Students at large, special students, and limited students, by virtue of their status, are not candidates for any degree.

ADMISSION TO THE UNIVERSITY**ADMISSION FROM ACCREDITED SCHOOLS IN CALIFORNIA**

A graduate of a California high school may enter the University of California without examination provided the following requirements be satisfied:

1. The school must have been accredited by the University of California.
2. The applicant must have completed a four-year high school course, aggregating at least 15 standard units of preparatory work (the equivalent of 45 units by the scale heretofore used), and he must be duly certified as a graduate of the school.
3. The candidate must be recommended for admission to the University of California according to the following form:

I certify that was graduated from the School,, 19....., after an attendance at said school of not less than one school-year* immediately preceding graduation. I believe that the candidate is fitted to undertake college work, with reasonable prospect of success, for the following reasons: (1) that he (or she) possesses, in my judgment, the needful ability, character, and seriousness of purpose; and (2) that he (or she) has completed with a satisfactory scholarship record the preparatory subjects listed below (list of subjects follows).

(Signed)

Principal of High School.

In recommending graduates for admission to the University the principals of accredited schools should use Recommendation Form A, with application for admission attached. Copies of this form are supplied by the University to the principals of all accredited schools in California.

The accrediting of secondary schools is regulated by an order of the Regents of the University passed March 4, 1884, and amended September 10, 1895, and January 10, 1905. Principals' applications for the accrediting of their schools must be in the hands of the Recorder of the Faculties at Berkeley on or before the first day of December of each school year.

The list of accredited schools is published by the University annually, in the month of June or July. Blank forms of application for accrediting, and lists of accredited schools, may be obtained from the Recorder of the Faculties.

* If, however, candidate has completed all of his high school work in accredited institutions, and if the principals of these several schools unite in recommending him, the usual requirement that the candidate must have spent his senior year in the school from which he is graduated may be set aside.

Caution.—Candidates recommended in accordance with the foregoing provisions are admitted to the University and enrolled in the curricula of their choice. It will be seen, however, that some of these curricula cannot be completed in the University in the normal period (four years for the degree A.B. or B.S.) unless the candidate during his high school course has completed such specific prerequisites as may underlie the University work. A list of the curricula, with a statement of the preparatory work required and recommended, is given hereunder.

ADMISSION FROM CALIFORNIA SCHOOLS NOT ACCREDITED

A graduate of a California secondary school not accredited by the University who is strongly recommended by the principal of his school will be admitted upon passing the following examinations:

English (2 units); U. S. History (1 unit); laboratory science (1 unit); and two of the following groups:

(a) Advanced English and History (in addition to U. S. History), any 2 units.

(b) Mathematics (intermediate algebra and trigonometry), 1½ units.

(c) Foreign languages, 3 units in one, or 2 units in each of two.

(d) Additional advanced science, 2 units.

ADMISSION FROM APPROVED HIGH SCHOOLS IN OTHER STATES

Applicants from secondary schools outside of California are required to meet the same standards as applicants who enter from secondary schools in California. The committee in charge of admissions must have evidence of the following facts: that the school has an approved standing at universities or colleges of acknowledged rank; that the applicant has been graduated from a four-year course of not less than fifteen standard secondary units; that the high school programme shall have included the subjects prescribed by the California State Board of Education (see Preparatory Work Required and Recommended); and that the applicant has maintained an average scholarship standing well above the mark required by the school for promotion or graduation. The candidate may be certified by his principal upon the Principal's Recommendation, Form B. Copies of this form will be sent by the Recorder either to high school principals or to candidates for admission.

Caution.—Candidates recommended in accordance with the foregoing provisions are admitted to the University and enrolled in the curricula of their choice. It will be seen, however, that some of these curricula cannot be completed in the University in the normal period (four years for the degree A.B. or B.S.) unless the candidate during his high school

course has completed such specific prerequisites as may underlie the University work. A list of the curricula, with a statement of the preparatory work required and recommended, is given hereunder.

ADMISSION BY EXAMINATION

Candidates who are unable to present satisfactory school certificates may be admitted to the University by passing examinations in the preparatory subjects constituting a standard high school course. The subjects to be presented must be arranged in advance with the University. The subjects to be required by the University will depend upon the applicant's high school training, his age, and his proposed course of study in the University. The applicant must pass examinations in at least fifteen standard high school units.

Examinations at the University of California

Matriculation examinations are held in August and in January of each year; but the examinations in January are primarily for the purpose of enabling students in the University to remove matriculation deficiencies. Applicants for admission who present certificates from their teachers that they are prepared in the subjects they offer will be admitted to the January examinations. Such certificates must be filed with the Recorder of the Faculties before the examinations.

No person save a registered student of the University will be allowed to take any matriculation examination without having first filed an application for admission.

A circular concerning the matriculation examinations may be obtained by addressing the Recorder of the Faculties.

List of Preparatory Subjects

A list of preparatory subjects, with the amount of matriculation credit assigned to each, is given below. This list is not exhaustive, but it represents most of the fields of instruction in the secondary schools of California. With exceptions noted below, the University holds entrance examinations in these subjects:

New No.		Old No.	Units of Credit	New No.		Old No.	Units of Credit
1a	English, elem.....	(1)	2	†5b ⁴	Latin, adv., 4th yr.....	(7b, 7c) ⁹	1
1b	English, adv. I.....	(14a)	1	[5c ¹	French, elem., 1 yr. of 5c ²	(15a ¹)*	[1
1c	English, adv. II.....	(14b)	1	†5c ²	French, elem.....	(15a ²)	2
2a	Algebra, elem.....	(3)	1	†5c ³	French, intermed.....	(15a ³)	1
2b ¹	Algebraic Theory, I.....	(4a ¹)	†	†5c ⁴	French, adv.....	(15a ⁴)	1
2b ²	Algebraic Theory, II.....	(4a ²)	†	[5d ¹	German, elem., 1 yr. of 5d ²	(15b ¹)*	[1
2c	Plane Geometry.....	(2)	1	†5d ²	German, elem.....	(15b ²)	2
†2d	Solid Geometry.....	(4b)	†	†5d ³	German, intermed.....	(15b ³)	1
†2e	Plane Trigonometry.....	(12a ²)	†	†5d ⁴	German, adv.....	(15b ⁴)	1
†2f	Plane Analytic Geometry.....	(12a ³)	†	[5e ¹	Spanish, elem., 1 yr. of 5e ²	(15c ¹)*	[1
3a	Physics.....	(11)	1	†5e ²	Spanish, elem.....	(15c ²)	2
3b	Chemistry.....	(12b)	1	†5e ³	Spanish, intermed.....	(15c ³)	1
3c	Physiology and Hygiene.....	(12f)	1	†5e ⁴	Spanish, adv.....	(15c ⁴)	1
3d	Botany.....	(12c)	1	†6a	Freehand Drawing.....	(16)	1
3e	Zoology.....	(12d)	1	†6b	Geometrical Drawing.....	(17)	1
3f	Biology.....	(12h) ⁺	1	7	Mechanic Arts.....	(18a)	†-3
3g	Physical Geography.....	(12a)	1	8	Agriculture.....	(19) [*]	†-3
3h	Elem. Physical Science.....	(12g) [*]	1	9abc	Home Economics.....	(18cd) [*]	†-3
4a	History and Gov. of the U.S. (5)	(5)	1	10a	Music, Sight Singing and Dictation.....	(21a)	1
4b	History, Ancient.....	(10)	1	10b	Music, Elements of Composition.....	(21b)	1
4c	History, Med. and Mod.....	(13a)	1	10c	Music, Instrumental and Vocal Technique.....	(21c)	1
4d	History, English.....	(13b)	1	10d	Music, History of Modern European Music.....	(21d)	1
†5a ¹	Greek, elem.....	(8a)	[1	11	Bookkeeping.....	(20c)	1
†5a ²	Attic Prose.....	(8b)	2	12	Stenography and Typewriting.....	(20d)	1-2
†5a ³	Attic Prose, adv.....	(9a)	†				
†5a ⁴	Homer.....	(9b)	†				
[5b ¹	Latin, elem., 1st yr.....	(6ab ¹)*	[1				
5b ²	Latin, elem., 2d yr.....	(6a ² , 6b ²)	2				
†5b ³	Latin, adv., 3d. yr.....	(7a, 7c ¹)	1				

College Entrance Examination Board

Certificates of successful examinations before the College Entrance Examination Board will be accepted in lieu of matriculation examinations conducted by the University of California.

The examinations of the College Entrance Examination Board are usually held during the third week in June.

* No examination.

† The dagger indicates subjects for which equivalent courses are offered in the University. For further description of these courses reference should be made to the Announcement of Courses of Instruction, published elsewhere in this circular.

All applications for examination must be addressed to the College Entrance Examination Board, 431 West 117th street, New York, N. Y., and must be made upon a blank form to be obtained from the Secretary of the Board upon application. The separate form for the certificate of recommendation (also to be obtained from the Secretary of the Board) should be addressed to the Chairman of the Committee on Admission of the university, college, or scientific school that the candidate wishes to enter.

If the application is received sufficiently early the examination fee will be \$6 for candidates examined in the United States or Canada and \$20 for candidates examined outside of the United States or Canada. The fee should be remitted by postal order, express order, or draft on New York to the order of the College Entrance Examination Board, and should accompany the application.

The applications and fees of candidates who wish to be examined outside of the United States or Canada must reach the Secretary of the Board at least six weeks in advance of the first day of the examinations. The applications and fees of candidates who wish to be examined in the United States at points west of the Mississippi River or in Canada must be received at least four weeks in advance of the examinations. The applications and fees of candidates who wish to be examined in the United States at points east of the Mississippi River or on the Mississippi River must be received at least three weeks in advance of the first day of the examinations.

When the candidate has failed to obtain the required blank form of application for examination, the usual examination fee will be accepted if the fee arrive not later than the specified date accompanied by a memorandum containing the name and address of the candidate, the examination center at which he wishes to present himself, and a list of all the subjects in which he may have occasion to take the Board's examinations.

Applications received later than the dates named will be accepted only upon payment of \$6 in addition to the usual fee.

A list of the places at which examinations are to be held by the Board in June, 1921, will be published about March 1. Requests that the examinations be held at particular points, to receive proper consideration, should be transmitted to the Secretary of the Board not later than February 1.

Points on the Pacific Coast at which examinations are usually held are as follows: Los Angeles, Berkeley, Nordhoff, Stanford University, Portland, Seattle, Spokane, Tacoma.

ADMISSION ON TEACHERS' DIPLOMAS

Holders of Teachers' Life Diplomas or of State Educational Diplomas of this state, or holders of similar diplomas recognized by the State Board of Education of California, may be admitted provisionally to the University in the academic departments, with the privilege of satisfying matriculation requirements by examination or by work in the University.

PREPARATORY WORK REQUIRED AND RECOMMENDED**THE HIGH SCHOOL PROGRAM**

Aside from the specific prerequisites for certain curricula, as set forth below, no prescription of high school work is made by the University. It is assumed that the authorities in responsible control of secondary education will make reasonable provision for solidity and breadth in the high school course. The choice of electives during the high school period must be made by the pupil, under the direction of the school faculty, and the decision as to subjects chosen will be based not solely upon "recommendations" made by universities and colleges but also upon other considerations best known to the school authorities, such as the aptitude of the individual pupil and the extent to which proper facilities for work of high quality in the various subjects is supplied by the school. A resolution of the California State Board of Education directs that all public high school curricula in California require, for graduation after July 1, 1920, the following: English, 2 units; United States history and civics, 1 unit; laboratory science, 1 unit; and all such curricula must be so organized as to include two majors of at least 3 units each—a major consisting of three years of study in one of the following groups: (1) English (in vocational courses 1 unit of citizenship may be included with 2 units of English to make one major); (2) mathematics, including mechanical drawing; (3) history and social science; (4) physical and biological sciences; (5) foreign language—3 or more units in one language, or 2 units in each of two languages. Special attention is invited to the importance of high school instruction in the following subjects:

Subject A: English Composition.—All undergraduate intrants are, immediately following their admission, required to take a written examination in Subject A: English Composition. Students who fail to make a satisfactory showing in this test are required to continue class work in English composition in the University until such time as they reach a satisfactory standard of expression. A leaflet containing further information concerning Subject A may be obtained from the Recorder of the Faculties.

Foreign Language.—In practically all colleges and departments of the University a reading knowledge of a modern foreign language will be

helpful. In many departments such reading knowledge is indispensable for advanced work. Though the University gives instruction in the elements of modern foreign languages, high school pupils who are intending to enter the University should not neglect the study of foreign language in the high school if facilities for such study be offered there. This work can, as a rule, be more profitably undertaken by pupils of high school age than by older persons. If it become necessary to limit the number of students receiving instruction in the elements of foreign languages in the University, preference will be given to those who enter with two years or more of high school credit in a foreign language.

Mathematics.—If possible, provision should be made in the high school program for two years of work in mathematics, namely, elementary algebra and plane geometry. Instruction in these subjects—credit for both of which is required for any degree in the University of California—will, however, until further notice, be provided in the University.

PREPARATION FOR THE VARIOUS CURRICULA

The requirements and recommendations for the various curricula are stated below.

A "curriculum" is understood to be either a technical or specialized program of studies, as in the Colleges of Engineering, Agriculture, and Commerce; or a more general program (as in the College of Letters and Science) with a designated major subject, such as history, mathematics, or philosophy.

With reference to major subjects in the College of Letters and Science, the subjoined statement of "requirements and recommendations" is addressed rather to the student who desires to be well prepared to complete a full undergraduate major—possibly as a candidate for honors—than to the student who wishes merely to satisfy minimum graduation requirements. In some subjects it will be possible for students to satisfy minimum graduation requirements in the major without complying in all respects with the prerequisites herein listed.

In the subjoined statement, the terms "required" and "recommended" are to be interpreted as follows:

Required: Subjects without which the student will not be able to enter the regular curriculum. The omission of required subjects at matriculation will usually result in delaying graduation. The University gives no instruction in elementary Latin; none in elementary algebra or plane geometry except in the Extension Division, though, until further notice, resident instruction in plane geometry and elementary algebra will be provided for students who have not had this work in the high school. The equivalent of the high school courses in physics and chemistry is given in the summer session, not during the fall or spring session.

Recommended: Subjects which will usually give more effective preparation, and thus allow greater freedom of election at the University. The omission of these subjects at matriculation will usually not delay graduation if the student's work at the University is properly planned.

NOTE.—The numerals in parentheses represent units of high school work. A standard secondary unit is the measure of a subject pursued throughout the school year of from thirty-six to forty weeks and constituting approximately one-quarter of a full year's work.

Agriculture: leading to the degree of Bachelor of Science in the COLLEGE OF AGRICULTURE.

Required: plane geometry (1); elementary algebra (1); chemistry (1)*;

Recommended: advanced mathematics, including trigonometry (2); physics (1); geometrical drawing (1); advanced English (2); a reading knowledge of a foreign language.

Anthropology: leading to the degree of Bachelor of Arts.

Recommended: foreign language.

Architecture: leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE, at the end of four years, and to the degree of Graduate in Architecture in the SCHOOL OF ARCHITECTURE at the end of six years.

Required: same as for ENGINEERING.

Recommended: Latin (2); French (2).

Chemistry: leading to the degree of Bachelor of Science in the COLLEGE OF CHEMISTRY.

Required: same as for ENGINEERING, with French or German. See also SCIENCES, below.

Commerce: leading to the degree of Bachelor of Science in the COLLEGE OF COMMERCE.

Required: algebra (1); plane geometry (1).

Recommended: additional mathematics; modern foreign language.

Dentistry: leading to the degree of Doctor of Dental Surgery in the COLLEGE OF DENTISTRY at the end of four years.

Recommended: physics (1); chemistry (1); zoology (1); manual training.

* If it becomes necessary to limit the number of students receiving instruction in chemistry in the University, preference will be given to those who enter with credit in any two of the following high school subjects: chemistry, 1 unit; physics, 1 unit; plane trigonometry, $\frac{1}{2}$ unit.

Drawing and Art: leading to the degree of Bachelor of Arts.

Engineering Drawing.

Required: plane geometry (1); elementary algebra (1).

Recommended: solid geometry ($\frac{1}{2}$) plane trigonometry ($\frac{1}{2}$); geometrical drawing (1); freehand drawing (1).

Graphic Art.

Recommended: freehand drawing (1).

Economics: leading to the degree of Bachelor of Arts.

Recommended: foreign language.

Education: leading to the degree of Bachelor of Arts.

Recommended: foreign language.

Engineering: leading to the degree of Bachelor of Science in one of the colleges of engineering. These colleges are: COLLEGE OF MECHANICS—curricula in mechanical and electrical engineering, aerodynamics, marine engineering and naval architecture; COLLEGE OF MINING—curricula in petroleum engineering, metallurgy, and economic geology; COLLEGE OF CIVIL ENGINEERING—curricula in railroad, sanitary, municipal, and irrigation engineering; COLLEGE OF CHEMISTRY—curriculum in chemical engineering.

Required: plane geometry (1); elementary algebra (1); algebraic theory ($\frac{1}{2}$); trigonometry ($\frac{1}{2}$); physics (1); chemistry (1); geometrical drawing (1).

Recommended: advanced algebraic theory, including quadratics ($\frac{1}{4}$); solid geometry ($\frac{1}{2}$); freehand drawing (1); foreign language (2).

English: leading to the degree of Bachelor of Arts.

Recommended: Latin (4); Greek (3).

Forest Utilization: leading to the degree of Bachelor of Science in the COLLEGE OF AGRICULTURE.

Required: same as for ENGINEERING.

Recommended: same as for ENGINEERING.

History: leading to the degree of Bachelor of Arts.

Recommended: foreign language.

Home Economics: leading to the degree of Bachelor of Arts with a major in Household Art or in Household Science.

Household Art:

Required: chemistry (1)*.

Recommended: freehand drawing (1); botany (1) domestic science (2).

* If it becomes necessary to limit the number of students receiving instruction in chemistry in the University, preference will be given to those who enter with credit in any two of the following high school subjects: chemistry, 1 unit; physics, 1 unit; plane trigonometry, $\frac{1}{2}$ unit.

Household Science:

Required: chemistry (1)*; domestic science (cooking) (1).

Recommended: physics (1); French or German (2).

Languages—Classics, Latin, Greek: leading to the degree of Bachelor of Arts.

Required: Latin (2).

Recommended: advanced Latin (2); Greek (3); ancient history (1).

To delay advanced Latin until the university is reached will make it exceedingly difficult, though not impossible, to do any considerable amount of advanced work in Latin.

Other languages (Celtic, French, German, Italian, Oriental, Sanskrit, Semitic, Slavic, Spanish): leading to the degree of Bachelor of Arts.

Recommended: Latin (4) or Greek (3); French (2) or German (2).

Law: (A) leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE at the end of four years, and to the degree of J.D. in the School of Jurisprudence at the end of six years.

Recommended: physics (1) or chemistry (1); Latin (2); U. S. history (1) and English history (1).

(B) leading to the degree LL.B. in HASTINGS COLLEGE OF THE LAW (San Francisco) at the end of five years (two years in the COLLEGE OF LETTERS AND SCIENCE at Berkeley followed by three years in HASTINGS COLLEGE OF THE LAW).

For further information see the annual announcements of the HASTINGS COLLEGE OF THE LAW and of the SCHOOL OF JURISPRUDENCE.

Library Science: leading to the degree of Bachelor of Arts.

Recommended: foreign language.

Mathematics: leading to the degree of Bachelor of Arts.

Required: plane geometry (1); elementary algebra (1).

Recommended: advanced algebraic theory, including quadratics (1); solid geometry ($\frac{1}{2}$); trigonometry ($\frac{1}{2}$).

Medicine: leading to the degree of Doctor of Medicine in seven years; or to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE and Doctor of Medicine in the MEDICAL SCHOOL in a combined course of eight years.

Required: English (3); elementary algebra (1); plane geometry (1); physics (1); chemistry (1); French (2) or German (2); history (1).

Recommended: advanced mathematics; freehand drawing (1).

A full statement of the prerequisites for the course in Medicine will be found in the Announcement of the MEDICAL SCHOOL.

* If it becomes necessary to limit the number of students receiving instruction in chemistry in the University, preference will be given to those who enter with credit in any two of the following high school subjects: chemistry, 1 unit; physics, 1 unit; plane trigonometry, $\frac{1}{2}$ unit.

Military Science and Tactics: leading to the degree of Bachelor of Arts.
Recommended: see ENGINEERING.

Music: leading to the degree of Bachelor of Arts.
Recommended: harmony (1); history of music (1); vocal or instrumental technique or choral practice (1).

Nursing: leading to the degree of Bachelor of Science at the end of a five-year course, including two years' training in the University of California School of Nursing in San Francisco.
Required: elementary algebra (1); plane geometry (1); chemistry (1)*;
Recommended: foreign language.

Pharmacy: (A) leading to the degree of Ph.G. (Graduate in Pharmacy) at the end of a course of two years in the California College of Pharmacy.

Required: two years of approved high school work or its equivalent. Beginning with the academic year 1922-23, the minimum entrance requirement will be graduation from an accredited high school or its educational equivalent.

(B) leading to the degree of Ph.C. (Pharmaceutical Chemist) at the end of a course of three years in the California College of Pharmacy.

Required: graduation from an approved high school course of four years or an equivalent preparation.

(C) leading to the degree of Phar.B. (Bachelor of Pharmacy) at the end of a course of four years in the California College of Pharmacy.

Required: graduation from an approved high school course of four years or an equivalent preparation.

Philosophy: leading to the degree of Bachelor of Arts.
Recommended: foreign language; mathematics; physics or chemistry.

Physical Education: leading to the degree of Bachelor of Arts.
Recommended: foreign language, chemistry.

Political Science: leading to the degree of Bachelor of Arts.
Recommended: foreign language.

* If it becomes necessary to limit the number of students receiving instruction in chemistry in the University, preference will be given to those who enter with credit in any two of the following high school subjects: chemistry, 1 unit; physics, 1 unit; plane trigonometry, $\frac{1}{2}$ unit.

Public Health: (A) leading to the degree of Bachelor of Arts in the COLLEGE OF LETTERS AND SCIENCE at the end of four years and to the degree of Graduate in Public Health (Gr.P.H.) in the GRADUATE DIVISION at the end of six years.

Required: elementary algebra (1); plane geometry (1); physics (1); chemistry (1).

Recommended: advanced mathematics (2); German (2) or French (2); freehand drawing (1).

(B) leading to the degree of Bachelor of Science in the COLLEGE OF CIVIL ENGINEERING (curriculum in sanitary engineering) at the end of four years and to the degree of Graduate in Public Health (Gr.P.H.) in the GRADUATE DIVISION at the end of six years.

Required: same as for ENGINEERING; see above.

Recommended: same as for ENGINEERING; see above.

(C) leading to the degrees of Doctor of Medicine and Graduate in Public Health in seven years; or to the degrees of Bachelor of Arts and Graduate in Public Health in the COLLEGE OF LETTERS AND SCIENCE and Doctor of Medicine in the MEDICAL SCHOOL in a combined course of eight years.

Required: elementary algebra (1); plane geometry (1); physics (1); chemistry (1).

Recommended: advanced mathematics (2); German (2) or French (2); freehand drawing (1).

Public Speaking: leading to the degree of Bachelor of Arts.

Recommended: foreign language.

Sciences (Anatomy, Astronomy, Biochemistry, Botany, Chemistry, Geography, Geology and Mineralogy, Hygiene, Palaeontology, Pathology and Bacteriology, Physics, Physiology, Psychology, Zoology): leading to the degree of Bachelor of Arts.

Required: elementary algebra (1); plane geometry (1); chemistry (1); physics (1).

Recommended: advanced mathematics (2); German (2) or French (2). Physics (1) is recommended but not required for students who intend to specialize in zoology. Geometrical drawing (1) is recommended for students who intend to specialize in chemistry.

ADMISSION WITH ADVANCED STANDING**ADMISSION FROM OTHER COLLEGES AND UNIVERSITIES**

Applicants may be given advanced standing in the University of California on the basis of certificates from other colleges and universities, upon the approval of the certificates by the proper committee. A form of statement of university work, which may be used for such certificates, will be furnished on application to the Recorder of the Faculties. It may be filled out by the applicant himself, but should be duly certified by the proper officer of the institution in which the work was done. There should also be submitted some credentials showing in *detail* the basis upon which the applicant was matriculated in the institution from which he comes, and the preparatory subjects for which matriculation credit was given. These documents should be filed with the Recorder of the Faculties, in order that they may be placed before the Board of Admissions, for an estimate of their value in terms of the requirements of the University of California. The Board, acting on behalf of the faculties, is empowered to reject the certificates, in whole or in part, and to require examination in any or all of the subjects offered.

Credit for Subject A (English expression) is not given upon certificate. An examination at the University is required in all cases.

ADMISSION FROM NORMAL SCHOOLS

A recommended graduate of a two-year academic course in a California State Normal School, if also a graduate (with University recommendation) of an accredited high school, receives in the University two years of advanced standing. Of this amount, a half-year is credited toward the high school teacher's recommendation, reducing the post-graduate course required by the University from a year to a half-year. The remaining year and a half counts as a part of the four-year undergraduate course, thus reducing the time required for the bachelor's degree from four years to two and a half years. Exceptions: The two-year curriculum of the San Francisco State Normal School ordinarily entitles the applicant to one year of advanced standing in the University. Graduates of the State Normal School at Chico will, as a rule, find it necessary to devote to the completion of the undergraduate course in the University at least two years and a half plus one summer session.

The foregoing allowance of credit is conditioned upon the presentation by the applicant of satisfactory recommendations both from his high

school and from the normal school. The applicant is expected to present recommendations for the maximum allowance of credit as above.

Credentials from high schools and normal schools of states other than California are evaluated in accordance with this general plan. The applicant must in every such case submit the detailed record of his high school and later studies in order that the Board of Admissions may be satisfied that the applicant has met the California requirements both as to selection of his studies and as to scholarship standing. Blank forms for statement of the applicant's studies are supplied by the University on request.

In technical or highly specialized fields of study the normal school graduate may not be able to take the maximum of advanced standing as above. He does not receive a year and a half of advanced standing in the colleges of engineering or in the premedical curriculum, since these curricula include a number of prescribed university subjects which are not paralleled in the normal school curriculum. Normal school graduates who have had little or no training in foreign language will ordinarily find it impossible to take advanced work in foreign languages in the University in a programme of study leading to the bachelor's degree in two and one-half years.

ADMISSION FROM SCHOOLS AND COLLEGES IN THE ORIENT

Graduates of approved schools and colleges in China, Japan, India and other Oriental countries may be admitted only if their command of English is sufficient to permit them to profit by university instruction. This will be tested by an oral and written examination set by the Board of Admissions. A brief circular concerning the rules of the Board of Admissions in the matter of assignment of credit in languages to foreign students may be obtained from the Recorder of the Faculties.

SURPLUS MATRICULATION CREDIT

With the adoption of the revised plan of admission to the University there is no longer provision for advanced standing in the University on the basis of surplus high school credit. Such credit may, by special action of the Board of Admissions, be given under the old rules to students who matriculate in the University before August, 1920.

ADMISSION OF SPECIAL STUDENTS

Special students are students of mature years who have not completed a satisfactory course in an accredited high school but who, by reason of special attainments, may be allowed to undertake certain courses not as candidates for degrees.

Save in the case of returned soldiers and sailors (see below), no person less than twenty-one years of age will be admitted to special status, but it is specifically emphasized that mere attainment of any given age does not constitute adequate qualification for admission to this status.

Applicants will not be admitted directly from the secondary schools to the status of special student.

The graduates of accredited high schools are not admitted as special students, but are expected to qualify for regular undergraduate standing in accordance with the usual rules. Such students may, with the approval of the proper study-lists officer, pursue strictly elective or limited programmes, if they do not desire to be candidates for degrees.

The University is willing to consider for admission to its courses applicants who have been in the Army or Navy of the United States or of the allies and, until January 15, 1921, without restriction as to age. In so doing it recognizes maturity as a warrant for allowing these applicants to undertake work in its courses, provided their preparation is such as to make it probable that they will be able to undertake the work with profit. The University does not contemplate the waiving of any portion of the high school or college course in determining fitness for graduation.

The University has no "special courses"; all courses are organized for regular students—that is, students who have had the equivalent of a good high school education and have been fully matriculated. Special students are admitted to such regular courses as they may be adjudged capable of mastering. They will seldom be able to undertake the work of the engineering and professional schools until all or nearly all the matriculation requirements shall have been met, and, while a member of the College of Letters and Science will be able to do a part of the prerequisite work of these schools and colleges at the University, instruction is not offered in such essential subjects as elementary English, elementary algebra, plane geometry, elementary Latin and Caesar and, save in the summer session, elementary physics and elementary chemistry. Before applying for admission, then, one should see that he is prepared in these subjects whenever they are prerequisite to work he may wish to do in the University.

The administration of special students is in the hands of the Board of Admissions. Prospective applicants should communicate with this

board through the Recorder of the Faculties, who will furnish forms for application for admission and for transcript of high school record.

Applications should be made at least six months in advance, since entrance examinations, at least in subjects of fundamental importance for the work proposed will be prescribed in practically all cases, and time should be allowed for preparation.

In general, admission to the University can be completed only by personal conference with the University Examiner, and with the departments, schools or colleges concerned.

ADMISSION TO GRADUATE STANDING

Persons holding the degree of Bachelor of Arts, Letters, Philosophy, or Science from a reputable institution authorized by law to confer these degrees, or holding any other degree or certificate which the Academic Senate may accept as equivalent, may be admitted as graduate students in the University of California upon presenting proper credentials.

The grade of work to which graduate students are assigned and their standing as candidates for a degree will depend upon the extent and character of their undergraduate courses. If in any department the preliminary training of applicants has not been sufficient to qualify them for strictly graduate work, they may be admitted to such undergraduate courses as may be suited to their needs. The status of all graduate students will lapse at the close of each academic year, unless they have been admitted to candidacy for degrees; but on application it may be renewed at the discretion of the Graduate Council. For the conditions under which the advanced degrees may be obtained see the latest ANNOUNCEMENT OF THE GRADUATE DIVISION, to be obtained on application to the Recorder of the Faculties.

COLLEGE OF LETTERS AND SCIENCE

LOWER DIVISION

The work of the lower division comprises the studies of the freshman and sophomore years. The junior certificate marks the transition from the lower division to the upper division.

The junior certificate in the College of Letters and Science will be required for admission to the upper division in and after August 1921, of all candidates for the bachelor's degree except those who in August 1920, shall have completed more than 30 units in the lower division. Students who shall have completed from 13 to 30 units in August, 1920, will be released from requirements *b*, *c*, and *d* given below, but not from

requirements *a* and *c*. Those having more than 30 units in August, 1920, may be granted the junior certificate if they fulfill all the requirements except *b*, *c*, and *d*, and in that case may graduate with the 120-unit minimum instead of the 124-unit minimum.

In the lower division of the College of Letters and Science it is expected that the student, in addition to fulfilling the prerequisites for the major work upon which he will concentrate in the upper division, will make an effort to establish a basis for that breadth of culture which will give him a realization of the methods and results of some of the more important types of intellectual endeavor, and a mental perspective that will aid him in reaching sound judgments. The junior certificate requirements were designed to provide in some degree for the accomplishment of this purpose, without unduly limiting the student's opportunity to satisfy his special tastes and preferences.

Certain courses taken in the high school are accepted as fulfilling in part or in whole some of these junior certificate requirements. It is desirable that the student should so arrange his high school program as to reduce the required work in the fields of foreign language, mathematics, and natural science. This makes his program more flexible, gives him a greater freedom of choice, and prepares him to pass more quickly into advanced work or into new fields of study. In no case however, does the satisfaction of junior certificate requirements in the high school reduce the minimum amount of work required in the University for the junior certificate (60) or for the degree (120).

The junior certificate will be granted on the completion of not less than 60 units of college work and the fulfillment of the following specific requirements:

(a) *General University Requirements.*

Subject A*.

Military, 6 units (men).

Hygiene, 1 unit (men) or 2 units (women).

Physical Education, 2 units.

(b) *Foreign Language.* At least 15 units in not more than two languages. Each year of high school work in a foreign language will be counted in satisfaction of 3 units of this requirement. Courses given in English by a foreign language department will not be accepted in fulfillment of this requirement.

(c) *Mathematics.* Elementary Algebra and Geometry. These subjects are not regularly given in the University except in the Extension Division,

*An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p. m. For further regulations concerning Subject A see General Regulations of the Faculties.

but for the academic year 1920-21, a course covering these subjects may be organized for students who have not completed this requirement in the high school.

(d) *Natural Science.* At least 12 units chosen from the following list:

- High School Physics (3A), 3 units (1 high school credit).
- High school Chemistry (3B), 3 units (1 high school credit).
- Astronomy 1, 1-2, 2A-2E, 5, 11.
- Botany 1, 2A-2B.
- Chemistry 1A-1B, 5, 6A-6B, 8, 9.
- Geography 1C, 2C.
- Geology 1A, 1B, 6.
- Mineralogy 1A-1B, 2AB.
- Palaeontology 1, 2.
- Pathology 1 (Bacteriology).
- Physics 1A-1B, 2A-2B, 3A-3B, 3C-3D, 4A-4B.
- Physiology 1, 2.
- Zoology 1A-1B, 4, 10.

(e) *Additional.* At least 9 units from one of the following groups, and at least a year-course in each of two others:

- (1) English, Public Speaking.
- (2) Foreign Language (additional to b). This may be satisfied in whole or in part in the high school, provided the language be Latin.
- (3) Mathematics: Plane Trigonometry, Plane Analytic Geometry, Introduction to Calculus. This may be satisfied partly in the high school.
- (4) History, Economics, Political Science.
- (5) Philosophy.

The work offered in satisfaction of requirement (e) must consist of subjects of college grade, except as otherwise provided, as shown in detail in the following list:

COURSES ACCEPTABLE IN FULFILLMENT OF REQUIREMENT (e) FOR THE JUNIOR CERTIFICATE

Group 1.—English and Public Speaking

Year Course: English 1A-1B; 1X-1B; or any upper division year-sequence. Public Speaking 1A-1B.

9-unit option: Any 9 units chosen from the following:

English 1X, 1A (except that 1X and 1A cannot both be counted), 1B, 3A, 3B, 4C, 4D, or any upper division course.

Public Speaking must include 1A-1B, to which may be added at least 3 units of 2A, 2B, 4A, 4B, 5A, 5B, 10A, 10B.

Group 2.—Foreign Languages

Year Course: Celtic 1A-1B; 101A-101B; or 104A-104B.

French: Any two consecutive courses of A, B, C, D, 5 or any upper division year-sequence.

German: Any two consecutive courses of A, B, C, D; or EC-RD; SC-SD; or any upper division year-sequence.

Greek: 1A-1B; 2A-2B; or 1AB-2AB; or a year's work chosen from 101, 102, 103, 104, 110, 114.

Italian: Any two consecutive courses of A, B, C, D, or any upper division year-sequence.

Latin: Any year-sequence from the following: C; BC; LA-LB; 1, 5, 102, 106.

Oriental Languages: 2A-2B; 3A-3B; 3C-3D; 8A-8B; 9A-9B; or 9C-9D.

Sanskrit: 101A-101B.

Semitic Languages: 3A-3B.

Slavic Languages: 1A-1B; 6A-6B; 10A-10B or 14A-14B.

Spanish: Any two consecutive courses of A, B, C, D, or any upper division year-sequence.

9-unit Option: 9 units selected from the courses offered in any department, except that courses given in English, or courses not requiring a study of the language or literature in the original will not be accepted. High School Latin may be used to satisfy this requirement in part or in whole, each year of High School Latin counting as 3 units.

Group 3.—Mathematics

Year Course: Any two consecutive courses of C, 5, 9, 3A-3B.

9-unit Option: Any 9 units selected from C, 5, 9, 3A, 3B. High School plane trigonometry (2f) and plane analytic geometry (2g) will each count for 2 units.

Group 4.—History, Economics, Political Science

Year Course: History 4A-4B; 8A-8B; or 17A-17B.

Economics 1A-1B; or 10-11.

Political Science 1A-1B or any upper division year-sequence.

9-unit Option: Any 9 units chosen from:

History 4A, 4B, 8A, 8B, 17A, 17B.

Economics 1A, 1B, 3A, 10, 11.

Political Science 1A-1B and any upper division course.

Group 5.—Philosophy.

Year Course: Philosophy 1A-1B; 3A-3B; or 4A-4B.

9-unit Option: Any 9 units selected from:

Philosophy 1A, 1B, 2A, 3A, 3B, 4A, 4B, 36A, 36B.

Credit by examination. Provision will be made for the satisfaction of requirements (b) to (e) inclusive by examination in lieu of the completion of the usual course requirements. Applicants for such examination must give notice of their intention to the Recorder of the Faculties and secure the authorization of the Executive Committee of the College of Letters and Science by written petition. Such authorization will not be given if the preparation for the examination was based on course instruction received at the University of California.

Honorable mention with the junior certificate. Honorable mention will be granted with the junior certificate to students who attain at least second grade in 45 units. A student who gains honorable mention is thereby considered eligible for the honors-status in the upper division.

UPPER DIVISION

In and after August 1921 except as noted above under Lower Division, only those students who have been granted the junior certificate, signifying their completion of lower division requirements, will be registered in the upper division.

The degree of Bachelor of Arts will be granted upon the following conditions:

(1) At least 54 units of college work must be completed after the receipt of the junior certificate.

(2) At least 36 units of work done in the upper division must be in upper division or graduate courses in the following departments:

Agriculture	French
Anatomy	Geology and Mineralogy
Anthropology	Geography
Architecture	German
Astronomy	Greek
Biochemistry and Pharmacology	History
Botany	Home Economics
Celtic	Hygiene
Chemistry	Irrigation
Civil Engineering	Italian
Drawing and Art	Jurisprudence
Economics	Latin
Education	Library Science
English	Mathematics

Mechanical and Electrical Engineering	Physical Education for Women
Military Science	Physics
Mining and Metallurgy	Physiology
Music	Political Science
Oriental Languages	Public Speaking
Palaeontology	Sanskrit
Pathology and Bacteriology	Semitic Languages
Philosophy	Slavic Languages
Physical Education for Men	Spanish
	Zoology

(3) At least 12 of the upper division units required must be taken in a single department exclusive of courses in Library Science, Agriculture, Mechanical and Electrical Engineering, Mining, Civil Engineering, and Irrigation. (However, candidates for A.B. to be conferred not later than May 1921, may present 12 units of work in Library Science in satisfaction of this requirement.)

(4) The total number of units of college courses in the lower and upper divisions offered for the degree must be at least 120.

Study-list limits in the upper division are 12 to 16 units per half-year, including credit for work taken to make up deficiencies.

Undergraduate Majors. A student who desires to devote special attention to the work of a particular department during his undergraduate period, or to prepare himself for effective graduate work in such department is advised to elect a major in that department. A major consists of a substantial group of co-ordinated upper division courses taken under the advice of the department of the student's choice. Such department is known as the student's major department. Honors at graduation are given only to students who have given evidence of superior scholarship in the work of their major subject.

Candidates for honors at graduation may be required by their major department to take as much as 24 units, instead of 12, in upper division courses of that department.

Preparation for Master's Degree. Students who intend to proceed to the master's degree may find that the 12-unit minimum of upper division courses is not sufficient to enable them to secure the master's degree in one year.

CANDIDACY FOR HONORS

The attention of juniors and seniors is called to the fact that the only requirement for registration as honors students is the formal approval of the department of their choice. Serious students who have done reasonably well in the lower division are strongly recommended to avail themselves of the advantages which they can derive as honors

students from the personal guidance and supervision of the members of the department in which they choose to do their major work. In the College of Letters and Science, juniors and seniors who wish to register as honors-students use a special form of study-list which may be obtained at the time of registration.

Any student who is approved by his major department as a member of the honors group will, so long as he remains in the honors group, report at the beginning of each half-year to the department of his major work. The department will advise him in the choice of his studies and will specifically approve all courses taken in the department of the student's major.

After the first half of the junior year the Committee on Candidates for Honors, will, upon the recommendation of the several departments, decide what students shall remain in the honors group, and what students shall be promoted to the honors group. In determining these matters, the committee will consider not only the student's work in the department of his major but his entire record.

The several departments have full freedom in determining the most efficacious methods for the training of candidates for honors; but no student will be required to take more than 24 units of upper division work in the department of his major. Departments may offer special honors courses in reading and research, with credit to be determined by the instructors in charge, according to the performance of the individual student, subject to such general restrictions as may be imposed by the department and by the Committee on Courses of Instruction. The work of the student in such an honors course may consist of additional work in connection with regular courses of instruction, or may be independent of such courses.

It will be quite possible, though perhaps not often desirable, for a student who is enrolled as a candidate for honors in one department to be transferred to another. In order to make such a change, it will be necessary for him to secure the consent of the department to which he desires to be transferred. If, therefore, at the beginning of his junior year, a student who is eligible for candidacy has not yet finally determined upon his major subject, he should enroll with the department to which he is most inclined at the time, understanding that at the beginning of any subsequent term he may make a change in accordance with the conditions just stated.

Before Commencement, a department satisfies itself by means of a general final examination, or in such other manner as it may deem best, of the fitness of each candidate for honors at graduation. Candidates who, in the judgment of their departments, display marked superiority in their major subject, receive the special distinction of highest honors. The list of students upon whom honors and highest honors are conferred,

with mention of their major department, appears in the annual Commencement program.

Honors candidates may be granted not more than two units per half-year on their record, on recommendation of the department. The program of an honors candidate need not be restricted to the departments mentioned above if the department of his major subject approve.

COLLEGE OF COMMERCE

UNDERGRADUATE CURRICULUM

The course leads to the degree of Bachelor of Science and is mainly devoted to elementary and technical studies as a broad preparation for business life. While some specialization is provided for in the senior year, those who wish to prepare for some particular commercial career are advised to extend their course beyond the usual four years. Courses covering five years have been outlined as a preparation for the work of the Certified Public Accountant, of the Actuary, for the consular service, and for railroading. Graduation from this college requires the completion of 124 units of college credit, of which 64 units constitutes the amount required in the University for the junior certificate.

The requirements for the junior certificate are as follows:

Subject A: English Composition. Examination required of all.*

Foreign Languages—

Students must pass an examination designed to test their ability to read one of the following languages:

Greek, Latin, German, French, Spanish, or Italian.

History or Political Science—

History 4A-4B, or History 8A-8B, or Political Science

1A-1B 6 units

Geography—

Geography 1A (Physical Geography) and Economics 3A
(Commercial Geography) 7

Other sciences 9

Mathematics—

Mathematics A (Algebra, see below) and 3

Mathematics 2 (Mathematical Theory of Investment) 5

Economics—

Economics 1A-1B 8

Military Science, Physical Education, Hygiene 9

Electives 17

Total 64 units

* Date of next examination: Saturday, August 14, 1920, 2 p.m. For regulations governing this requirement see General Regulations of the Faculties.

† Date of next examination: Saturday, August 21, 1920, 2 p.m. For further information see placards, bulletin boards.

The courses in science and the course in algebra may be taken in high school. (After the half-year August-December, 1920, Mathematics A will not be offered in the University except during the summer sessions.) The specified work in history, political science, geography, economics and in the mathematical theory of investment must be taken in college. Students are warned that the college courses are advanced in character, and they are earnestly advised to lay a solid foundation in high school for their college work.

The requirements for graduation, in addition to those for the junior certificate, are:

Technical subjects	31 units
Commercial Law (Jurisprudence 18A-18B, 118A-118B) 10	
Electives	19
Total	60 units

The technical subjects are distributed as follows:

(a) Ten units specifically required of all students, namely:

Statistics (Economics 140)	4
Accounting (Economics 14)	3
Economic History (Economics 10).....	3

(b) Twelve units, covering at least four different subjects in applied economics, other than the above, such as money, banking, insurance, transportation, tariff, finance, labor problems, business organization, etc.

(c) Nine units of advanced work in some one of the subjects begun under provisions (a) and (b) above.

Where the arrangement of courses is such as to make it possible, the additional specific requirements for graduation (in excess of those required for the junior certificate) may be satisfied by work done before taking the junior certificate, thus increasing the opportunity for specialized elective work in the upper division.

COLLEGE OF AGRICULTURE*

The prospective student should consult the requirements and recommendations for matriculation, as stated on page 24. *Failure to take the proper subjects in high school may delay graduation from the College of Agriculture.*

More detailed information regarding instruction in the College of Agriculture than is given below is contained in the Prospectus of the College of Agriculture. This may be obtained by applying to the Dean of the College of Agriculture, Berkeley, California.

* The statements in pp. 40-43 refer to curricula in the College of Agriculture other than in Forest Utilization. For the curriculum in Forest Utilization see page 43.

REQUIREMENTS FOR THE DEGREE OF BACHELOR OF SCIENCE

(1) Four years of residence.

(2) One hundred and thirty semester units of university work, in addition to matriculation, and in addition to Subject A*. These 130 units must be chosen in accordance with the provisions set forth hereinafter.

(3) Including work presented for matriculation,† all students must have completed—ordinarily before the end of the sophomore year—English, 12 units; mathematics, including trigonometry, 12 units; physics, 3 units; history or economics, 9 units. Students without credit for matriculation physics may take the equivalent course in the summer session; or they may take Physics 2A in the first half-year provided they have credit in trigonometry or are taking it concurrently. If the student has entered with two years each of English and mathematics and one year of history he must complete in the University six units each of English, mathematics, and history or economics.

(4) A summer course in special work connected with the proposed major subject. This course is taken immediately before or immediately following the junior year as may be arranged by the adviser in the major subject concerned. The course is six weeks in length; credit, 6 units. Information concerning the summer practice work may be obtained from the adviser. Students in certain major subjects may offer practical experience in lieu of the summer practice course, but no credit in units will be granted for the practice course in such cases. Such substitution must be approved by the major subject adviser.

(5) The following courses must be completed before graduation:

Botany 3	½ year
Chemistry 1A-1B	1 year
‡Drawing C	½ year
Geology 1A	½ year
Hygiene	½ year
‡Mathematics C	½ year
Military Science	2 years
Physical Education	2 years
Zoology 1A	½ year

and two or more of the following four subjects, according to the requirements of the major subject chosen by the student:

Agricultural Chemistry 1 and 2	½ year
Bacteriology 1	½ year
Genetics 1	½ year
Soil Technology 1	½ year

* An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A see General Regulations of the Faculties.

† One year of high school work in a given subject is here counted as the equivalent of three units of university work.

‡ Students with matriculation credit in these subjects are not required to complete these courses.

(6) Among the sixty units of work normally taken in the junior and senior years there must be 36 units in upper division courses (i.e., those numbered 100 to 199), at least 26 units of which must be in the Department of Agriculture.

(7) Each student must select a major subject not later than the middle of the sophomore year. There are six major subjects in the College of Agriculture: agricultural science, agronomy, animal industries, forestry, horticulture, and landscape gardening. In each major subject certain work will be required in addition to the general college requirements (Nos. 1-6) listed above, and the student should consult the major adviser regarding these requirements. Details regarding the various major subjects will be published in a supplement to the Prospectus of the College of Agriculture.

FRESHMAN YEAR

During the freshman year the following schedule will normally be followed; but for those who upon entrance to the University have definitely selected their major subject this program may be modified with the approval of the major subject adviser. It is not necessary for students to choose the major subject in the freshman year, but they may do so.

EXAMPLE OF PROGRAMME

<i>First Half-year</i>	Units	<i>Second Half-year</i>	Units
Military Science 1A	1½	Military Science 1B	1½
Physical Education	½	Physical Education	½
Hygiene	1	Chemistry 1B	5
Chemistry 1A	5	Botany 3	4
Zoology 1A	4	*Pomology 1 (Horticulture)	3
*Agronomy 1 or Animal Husbandry 1	3	Optional	4
Optional	3		
	<hr/> 18		<hr/> 18

SOPHOMORE, JUNIOR, AND SENIOR YEARS

A supplement to the Prospectus of the College of Agriculture will state the details of the work of the last three years in each of the six major subjects.

APPROVAL OF STUDY-LISTS AND THESES

The study-lists of freshmen and sophomores must bear the written approval of a member of the Lower Division Advisory Committee if the student has not yet chosen his major subject; of the major subject adviser if the student has chosen his major. In either case study-lists must then be countersigned by the Secretary of the College of Agriculture.

The study-lists of juniors and seniors must first be endorsed by the major subject adviser and then be countersigned by the Director of Resident Instruction of the College of Agriculture.

* Recommended, but not required for graduation.

If thesis work is taken it will be arranged with an instructor in the major subject. The student will submit his plan of thesis work to the Director of Resident Instruction at the beginning of the senior year, and upon approval by the Director will file his thesis card with the secretary of the college. For further procedure follow the rules governing theses as stated in later pages of this circular.

AMOUNT OF WORK

Regular students who are free from deficiencies in their university work may register for not to exceed 18 units of new work. Regular students with deficiencies will be limited to 16 units, including repeated work. Students with deficiencies taking the prescribed courses in physical education, hygiene or military science may, with the approval of the Study-Lists Committee, add these courses to the maximum as stated herein.

CURRICULUM IN FOREST UTILIZATION

Matriculation requirements are the same as for the curricula in engineering. See Admission to the University: Requirements and Recommendations for the various curricula.

Full details regarding the work in forestry are given in the Announcement of Courses in Forestry, which may be obtained from the Division of Forestry, University of California, Berkeley, California.

<i>Freshman Year</i>		<i>Sophomore Year</i>	
*Subject A.....	.....	Math. 4A-4B, Int. Calculus.....	3 3
Math. 3A-3B, Diff. Calculus.....	3 3	Phys. 4A-4B, General.....	3 3
Phys. 1A-1B, General.....	3 3	Draw. 3D, Descript. Geom.....	3
C. E. 1A-1B, Surveying.....	3 3	Mech. 8A, Shop work (wood).....	2
Chem. 1A-1B.....	5 5	Mech. 1, Steam Eng.....	3
Military 1A-1B.....	1½ 1½	Elec. Eng. 1.....	.... 3
Hygiene 1.....	1	Forestry 10, Mensuration.....	.... 3
Phys. Educ. 1A-1B, Gym.....	½ ½	Military 2A-2B.....	1½ 1½
C. E. 3 (S. S.), Surveying.....	(3)	Phys. Ed. 1C-1D, Gymnasium.....	½ ½
	(3)	Elective.....	2 3
	17 16		18 17

Summer following sophomore year: Forestry 99, Practice in Mensuration, Management, Grazing, Logging, and Sawmilling; 13 weeks, 6 units.

<i>Junior Year</i>		<i>Senior Year</i>	
Mech. 9A, Shop work (iron).....	2	Forestry 104, Silviculture.....	5
Mech. 102A-102B, Eng. Mech.....	3 3	Forestry 118, Engineering.....	.... 3
Forestry 20, Protection.....	.... 3	Forestry 120, Finance.....	.... 3
Forestry 108, Timber Trees.....	3	Forestry 124, Lumber Industry.....	.... 3
Forestry 114, Wood Tech.....	3	Forestry 112, Utilization.....	3
Forestry 115, Logging.....	.... 3	Elective.....	10 9
Forestry 122, Administration.....	.... 3		18 18
Elective.....	7 6		
	18 18		

Study-lists of students in Forest Utilization must be approved by the forestry major subject adviser, and also by the Director of Resident Instruction or the Secretary of the College of Agriculture.

* An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A see General Regulations of the Faculties.

COLLEGE OF MINING—UNDERGRADUATE CURRICULA

For matriculation requirements see pages 17, 25.

NOTE.—Students in the College of Mining may elect one of four curricula: (1) Mining Engineering; (2) Metallurgy; (3) Economic Geology; and (4) Petroleum Engineering. Each is a four-year curriculum and leads to the degree of Bachelor of Science in mining with the completion of 147 units of work.

These four curricula have a common requirement for the first year, after which the student is expected to elect the one in which he wishes to specialize. In the second, third and fourth years, the courses listed at the beginning of the column are common requirements for all students in the College of Mining. In addition to these, each student is required to take the courses listed under his particular option.

FRESHMAN		JUNIOR		SENIOR	
Subject A	3	Mech. 102A-102B, or		Mining 107	3
Math. 3A-3B	3 3	Phys. 105A-105B	3 3	Geol. 102c	3
Phys. 1A-1B	3 3	Mining 103	2	Thesis or	
Chem. 1A-1B	5 5			Summer Work	2 2
C. E. 1A-1B	3 3	MINING		MINING	
Phys. Educ. 1A-1B	1 1	Mettall. 104A	3	Mining 105	3
Mining 5	2	Mettall. 102	2	Mining 101	3
Hygiene 1	1	Mineral. 103	2	Mining 109	2
Mil. 1A-1B	1 1	Geol. 103A-B	3	Mettall. 108A-106	2
C. E. 3A (a.s.)	(3)	C. E. 108A	3	Mettall. 110A	2
	17 18	Drawing 105	2	Mech 103A or	
		Elec. Eng. 100AC-100BD	3 3	C. E. 110	3
		Geol. 102A-102B	2 2	Juris. 216	1
		Elective	3	Mining 111A-111B	4 3
			19 17		17 18
SOPHOMORE		METALLURGY		METALLURGY	
Math. 4A-4B	3 3	Mettall. 104A-104B	3 2	Mettall. 108A-108B	2 2
Phys. 4A-4B	3 3	Mettall. 102	2	Mettall. 110A-110B	2 2
Mineral. 1A, 1B	2 2	Chemistry 110	3	Mettall. 112-116	2 2
Mineral. 2A, 2B	3 3	Geology 103AB	3	Mettall. 106	2
Drawing 3D or		Elec. Eng. 100AC-100BD	3 3	Mining 101	3
Mech. 2	3	Civil Eng. 108A	3	Mining 109	2
Geol. 1A	3	Elective	1 4	Mech. 103A or	
Phys. Educ. 1C-1D	1 1		18 17	C. E. 110	3
Mil. 2A-2B	1 1	ECONOMIC GEOLOGY		Elective	4
		Geol. 102A-102B	2 2		18 18
		Geol. 104A-104B	3 3	ECONOMIC GEOLOGY	
		Geol. 103AB	4	Geol. 102D-116	2 2
		Geol. 1B	2	Geol. 107	2
		Mettall. 104A	3	Geol. 209	2
		Mettall. 102	2	Mining 101	3
		Mineral. 103	2	Mineral. 104-105-107	2 2
		Chem. 110	3	Mettall. 108A	2
		Elective	1	Juris. 216	1
			17 18	Elective	6 2
		PETROLEUM ENGINEERING			18 18
		Geol. 102A-102B	2 2	PETROLEUM ENGINEERING	
		Geol. 103AB	3	Petrol. 115-119	2 2
		Elec. Eng. 100AC-100BD	3 3	Petrol. 123	2
		C. E. 108A	3	Petrol. 125	1
		Geol. 1B	2	Geol. 102D-116	2 2
		Chemistry 110	3	Mech. 1	3
		Petrol. Eng. 127	1	Mech. 103A or	
		Palaeon. 1 or		C. E. 110	3
		Geol. 6	2 2	Mettall. 106	2
		Elective	(2) (3)	Chem. 141-140B	2 2
			19 16	Elective	3
					18 18

†An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A, see General Regulations of the Faculties.

COLLEGE OF CIVIL ENGINEERING—UNDERGRADUATE CURRICULA

For matriculation requirements see Admission to the University: Requirements and Recommendations for the various curricula.

FRESHMAN	SOPHOMORE	JUNIOR	SENIOR
†Subject A..... - - Math. 3A-3a..... 3 3 Physics 1A-1B..... 3 3 Chem. 1A-1B..... 5 5 C. E. 1A-1B..... 3 3 Phys. Educ. 1A-1B..... † † Hygiene 1..... 1 - Mil. 1A-1B..... 1† 1† C. E. 3 (a. s.)..... (3) Elective..... - 2 17 18	Math. 4A-4B..... 3 3 Physics 4A-4B..... 3 3 Draw. 3d or Mech. 2..... 3 - Astron. 3..... - 1 C. E. 8..... - 2 Phys. Educ. 1C-1D..... † † Mil. 2A-2B..... 1† 1† Geol. 1A..... 3 - RAILROAD AND IRRIGATION Mech. 1..... 3 - Min'l. 1A-1B, or Mech. 8A-8B, or Mech. 9A-9B..... } 2 2 Mech. 6A..... - 5 Elective..... - 19 19 18 SANITARY AND MUNICIPAL Chem. 8..... 3 - C. E. 25..... 2 - Bacteriology 1..... 4 Elective..... 3 19 18	Mech. 102A-102B..... 3 3 C. E. 108A-108B..... 3 2 C. E. 107A..... 3 C. E. 110..... 3 - C. E. 102..... 3 C. E. 108..... 1 Met. 106**..... 2 C. E. 103 (a. s.)..... (3) RAILROAD C. E. 102C..... 1 Astron. 107..... 2 E. E. 100ABCD..... 3 3 Elective..... 1 3 18 18 SANITARY AND MUNICIPAL Zool. 109C..... 1 C. E. 106..... 2 C. E. 111A..... 2 Chem. 5..... 3 Elective..... 1 4 18 18 IRRIGATION Irrig. 102A..... 2 Irrig. 101..... 2 Irrig. 102..... 2 Irrig. 104..... 2 Mech. Eng. 103B..... 2 C. E. 109A-111A..... 3 Elective..... 1 18 18	C. E. 107C-107D..... 3 3 C. E. 113..... 2 C. E. 119 Thesis..... 2 2 C. E. 108C..... 2 C. E. 114..... 3 RAILROAD C. E. 104A-104B..... 3 3 Astron. 114..... 3 C. E. 105..... 2 C. E. 109A-111A..... 2 2 Elective..... 1 3 18 18 SANITARY AND MUNICIPAL Mech. 1..... 3 C. E. 123..... 3 C. E. 109A..... 2 C. E. 109B..... 1 C. E. 111B..... 1 C. E. 126..... 2 Mech. Eng. 103B..... 3 Elective..... 4 18 18 IRRIGATION Irrig. 102B..... 2 Irrig. 101..... 2 Irrig. 112..... 2 Irrig. 104..... 2 Mech. Eng. 103B..... 2 C. E. 109A-111A..... 3 Elective..... 1 18 18

†An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A, see General Regulations of the Faculties.

‡Any 4 units in this group may be elected. **Economics 1A, 4 units, first half-year, or English 1C, 3 units, either half-year, may be taken as an alternative for Met. 106.

COLLEGE OF CHEMISTRY

Preparation.—Students who propose to enter the College of Chemistry should include in their high school programs physics (one year), chemistry (one year), mathematics, including trigonometry (three years), German or French (two years) and geometrical drawing (one year). Without this preparation it will be difficult or impossible to complete the required curriculum within four years. It should be noted that the equivalents of high school physics and chemistry are given in the University during the summer session only, not during the fall or spring sessions.

Electives.—The total number of units required for graduation is 136. Of the elective units, 35 must be approved electives in chemistry or allied subjects; the remainder are free electives, but may not include the preparatory subjects listed above. Study-lists must be submitted for approval to Professor O'Neill.

Foreign Language Requirement.—A satisfactory reading knowledge of scientific German before the junior year is essential. The student is urged also to acquire a reading knowledge of French.

Honors Students.—Students who in the first two years of their college work have received the grade of 1 or 2 in 48 units of accepted courses will receive honorable mention with junior standing. These students are entitled and urged to enter as candidates for honors. The Committee on Candidates for Honors of the College of Chemistry will determine what students shall remain in the honors-group and what students shall be promoted thereto. Candidates who, in the judgment of the Faculty, display marked superiority in scholarship receive the special distinction of highest honors. The list of students upon whom honors, and highest honors, are conferred, with mention of their major department, appears in the annual Commencement program. Further information for honors students will be found in the Announcement of Courses.

FRESHMAN			
Subject A.....	...	...	...
Math. 3A-3B.....	3	3	
Phys. 1A-1B.....	3	3	
Chem. 1A-1B.....	5	5	
German A-B ²	3	3	
Mil. 1A-1B.....	1½	1½	
Phys. Educ. 1A-1B.....	½	½	
Hygiene I.....	1	1	
Elective.....	...	1	
	17	17	

JUNIOR			
	Pass Grp.	Hnr. Grp.	
Chem. 111.....	4	4	...
Chem. 114.....	...	3	...
Chem. 116.....	...	3	...
Chem. 120.....	3	3	...
Chem. 122.....	2	2	...
Electives.....	12	14	10
	16	19	17

SOPHOMORE			
Math. 4A-4B.....	3	3	
Phys. 4A-4B.....	3	3	
Chem. 6A-6B.....	3	3	
Chem. 8.....	3	...	
Chem. 9, 100.....	3	3	
Chem. 110.....	3	3	
Mil. 2A-2B.....	1½	1½	
Phys. Educ. 1C-1D.....	½	½	
Elective.....	...	1	
	17	18	

SENIOR			
Electives.....	16	16	
Candidates for honors at graduation are required to complete at least 4 units of Chemistry 180.			

* An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A see General Regulations of the Faculties.

Course in Chemical Engineering: Students in the College of Chemistry who wish to specialize in Chemical Engineering must take all the prescribed courses in the College of Chemistry and will be expected to choose their electives in substantial accordance with the following schedule:

FRESHMAN			
*Subject A.....	.....	.....	.....
Math. 3A-3B.....	3	3	
Phys. 1A-1B.....	3	3	
Chem. 1A-1B.....	5	5	
German A ¹ -B ²	3	3	
Mil. 1A-1B.....	1½	1½	
Phys. Educ. 1A-1B.....	1½	1½	
Hygiene 1.....	1		
<i>Elective Courses</i>			
Mech. 8B.....	.....	2	
	17	18	

JUNIOR			
Pass Grp. Hnr. Grp			
Chem. 8.....	3	3	.....
Chem. 9, 100.....	3	3	3
Chem. 111.....	4	3	.....
Chem. 114.....	.....	3	.....
Chem. 116.....	.....	3	.....
Chem. 120.....	3	3	.....
Chem. 122.....	2	2	.....
<i>Elective Courses</i>			
Mech. 102A-102B or			
Phys. 105A-105B.....	3	3	3
C. E. 108.....	3	3	.....
Electives.....	2	5	2
	18	16	18 16

SOPHOMORE			
Math. 4A-4B.....	3	3	
Physics 4A-4B.....	3	3	
Chem. 6A-6B.....	3	3	
Chem. 110.....	.....	3	
Mil. 2A-2B.....	1½	1½	
Phys. Educ. 1C, 1D.....	1½	1½	
<i>Elective Courses</i>			
Drawing 3D.....	3	.....
Mech. 6A.....	.....	3	
Mech. 1.....	3	.....
Electives.....	.....	2	
	17	19	

SENIOR			
<i>Elective Courses</i>			
Chem. 145.....	3	.....
Chem. 140A-140B.....	2	2	
Chem. 141.....	2	.....
Mech. 103A.....	3	.....
Mech. 105A-105B.....	3	3	
Mech. 117C-117D.....	1	1	
Elec. Eng. 100A-100B.....	2	2	
Elec. Eng. 100C-100D.....	1	1	
Electives or Chem. 180.....	.....	5	
	17	13	

CURRICULUM FOR NURSES

In November, 1917, the Academic Senate established a curriculum for the training of nurses and appointed a committee to administer the curriculum. This committee has issued the following:

The University of California has arranged through its academic departments and the University Hospital School of Nursing a five-year course for the training of nurses. The course is designed to meet the very great need for scientifically trained women to fill administrative and teaching positions in schools of nursing and to go into the many branches of public health work.

A. FIVE-YEAR COURSE

This course leads to the B.S. degree and a diploma in nursing. The first two and a half years† are spent in the departments at Berkeley,

* An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A see General Regulations of the Faculties.

† Students entering this curriculum may find it necessary to remain for three years in the departments at Berkeley in order to complete the special requirements as well as the requirements for the Junior Certificate. Such students will complete a minimum programme of 90 units in the departments at Berkeley and will receive the bachelor's degree after completing the additional two years at the School of Nursing.

then two years at the University Hospital School of Nursing in San Francisco, and the final half-year again in the departments at Berkeley.

The course as prescribed by the University of California follows:

COURSE FOR THE FIRST TWO AND ONE-HALF YEARS AT THE UNIVERSITY

Required: matriculation in the College of Letters and Science, including high school chemistry and either trigonometry or physics.

A minimum programme of 75 units must be completed which conforms to the requirements of the first two and a half years in the College of Letters and Science and includes the following subjects:

	Units
College Chemistry (1A-1B)	10
Anatomy (102)	4
Bacteriology (1)	4
Dietetics (Household Science 102)	4
Hygiene (2 and 3)	5
Physiology 1	4
Zoology (1A)	4
Economics (1A-1B; 180-181)	14
Psychology (Philosophy 2A)	3

Students taking this course should plan to spend ten weeks of their preparatory period at the University Hospital during the summer vacation following their first year at the University. This will not only afford the student an opportunity to learn whether she cares to continue the study of nursing and for what particular branch of nursing she wishes to prepare but it will enable the faculty to judge as to her ability to develop the qualities necessary in a nurse.

The last six months of training at the School of Nursing is so arranged that the student who has completed all required work satisfactorily may elect further training in any branch of nursing. She may spend this time in several departments if she wishes to do general private nursing; she may spend it in one department if her wish is to specialize; or she may prepare for teaching or administrative work.

B. COURSE LEADING TO B.S. DEGREE, CERTIFICATE IN NURSING AND CERTIFICATE IN PUBLIC HEALTH NURSING

The first two and one-half years in the departments at Berkeley and the class work at the University Hospital School of Nursing will be arranged as in "A". The details of the practical work are given in the Announcement of the School of Nursing, copies of which may be obtained from the Director of Nursing and Social Service, University of California Hospital, Fourth and Parnassus avenues, San Francisco.

SCHOOL OF ARCHITECTURE

The requirements for admission to the technical course in architecture are junior standing (60 units) in the College of Letters and Science and the following specific courses at the University. The matriculation requirements are identical with those of the colleges of engineering as set forth in earlier pages of this circular. If the course is to be completed in six years these courses must be completed in the lower division: Mathematics 3A-3B, 4A-4B; Graphic Art 14; Drawing 3A, 3B, 3C; Physics 1A-1B; Civil Engineering 8; Architecture 5A-5B, 11, 12A-12B, 13A-13B.

NOTE.—Students who do not wish to follow the technical curriculum in architecture may choose architecture as a major subject in the College of Letters and Science.

	Third Year	
	1st half-year Units	2nd half-year Units
Architecture 101A-101B...	3	3
Architecture 5C-5D.....	1	1
Architecture 105C-105D...	1	1
Architecture 106A-106B...	1	1
Architecture 12A-12B.....	1	1
Architecture 13A.....	1	1
Architecture 14A-14B.....	1	1
Drawing 110.....	2	2
Civil Engineering 117.....	..	3
Civil Engineering 118A-118B.....	3	3
Graphic Art 128A-128B...	2	2
	16	16

Fourth Year	
Architecture 102A-102B...	5
Architecture 5B-5F.....	1
Architecture 105E-105F...	1
Architecture 106C-106D...	1
Architecture 12A-12B.....	1
Architecture 14A-14B.....	1
Architecture 108A-108B...	3
Civil Engineering 107E-107F.....	3
Civil Engineering 108F....	1
	16

First Graduate Year	
Architecture 203A-203B...	8
Architecture 206E-206F...	1
Architecture 299A-299B...	1
Architecture 209A-209B...	3
Civil Engineering 1A.....	3
Civil Engineering 116.....	1
	16

Second Graduate Year	
Architecture 204.....	15
Architecture 216.....	15
	15

The foregoing curriculum leads to the Degree Bachelor of Arts at the end of the fourth year of undergraduate work, and to the degree of Graduate in Architecture at the end of the second graduate year.

The requirement for entrance to the School of Architecture (as distinguished from the Department of Architecture) is the A.B. degree with a major in Architecture or the equivalent of this. The degree of Graduate in Architecture is conferred upon students in the School of Architecture who shall have remained in residence at least one year after obtaining the A.B. degree and who shall have satisfactorily completed the following courses of study:

Architecture 5AB CDEF, 11, 12AB (six half-years), 13AB (three half-years), 14AB (four half-years), 101AB, 102AB, 105CDEF, 106ABCD, 108AB, 203AB, 206EF, 299AB, 209AB, 204, 216.

Civil Engineering 1A, 8, 107EF, 108F, 116, 117, 118AB.

Drawing 3ABC, 110; Graphic Art 14, 128AB.

To obtain the degree of Graduate in Architecture in the shortest possible time, students will find it necessary to anticipate the required studies as much as possible before obtaining the A.B. degree.

The division of the classes in architectural design is based upon a system of progressive values, instead of half-years, as follows:

Stage I—(Architecture 101A, Elementary Design) 3 projects during the half-year:

First Grade	12 values
Second Grade	8
Third Grade	4
Fourth Grade	0

Esquisse-Esquisse (3 required each half-year out of 8 programmes):

First Grade	4 values
Second Grade	2

24 values required.

Stage II—(Architecture 101B, Elementary Design) 3 projects during the half-year:

First Grade	12 values
Second Grade	8
Third Grade	4
Fourth Grade	0

Esquisse-Esquisse (3 required each half-year out of 8 programmes):

First Grade	4 values
Second Grade	2

24 values required.

Stage III—(Architecture 102A-102B) 3 projects each half-year:

First Grade	12 values
Second Grade	8
Third Grade	4
Fourth Grade	0

Esquisse-Esquisse (3 required each half-year out of 8 programmes):

First Grade	4 values
Second Grade	3

48 values required.

Stage IV—(Architecture 203A-203B, Planning and Composition) 3 projects each half-year:

First Grade	12 values
Second Grade	8
Third Grade	4
Fourth Grade	0

Esquisse-Esquisse (3 required each half-year out of 8 programmes):

First Grade	4 values
Second Grade	2
48 values required.	

Stage V—(Architecture 204, Advanced Design) 3 projects during the half-year:

First Grade	12 values
Second Grade	8
Third Grade	4
Fourth Grade	0

Esquisse-Esquisse (3 required each half-year out of 8 programmes):

First Grade	4 values
Second Grade	2
24 values required.	

Total, 168 values required.

No student may count, toward his total values, more than 4 values on Esquisse-Esquisse each half-year. No excess values in a given stage may be applied to credit in a higher stage. In stages IV and V a medal may be granted for a specially fine project, but no additional value is attached thereto. Projects which are handed in late receive the grade next below their rank.

Students who have fulfilled all other requirements of the curriculum of the School of Architecture are eligible to begin the thesis for the degree of Graduate in Architecture on, and only on, the completion of one hundred and sixty-eight values, regardless of the time covered, provided that the minimum time is two and one-half years after having completed the requisite preparatory work for Architecture 101.

Students may begin the thesis and seminar required for the degree of Graduate in Architecture upon the completion of one hundred and sixty-eight values (with above minimum proviso), whether it be at the end of a half-year or not, and present the work at the end of a time equal to a regular half-year.

SCHOOL OF EDUCATION

The term "School of Education" designates the professional courses intended:

1. For students preparing to become teachers in secondary schools and colleges:
2. For graduates of normal schools, who are making further preparation for teaching in elementary schools;

3. For students preparing to engage in school administration or to teach in normal schools or in university departments of education or to carry on research in the field of education.

While many of the courses offered are open to college juniors, the prerequisite for formal admission to the School of Education is the completion of at least three full years of undergraduate work.

For further information concerning the School of Education see the annual announcement of the school, to be obtained from the Recorder of the Faculties.

SCHOOL OF JURISPRUDENCE

The following persons will be admitted without examination, as candidates for the degree of Juris Doctor: (1) graduates of any college of the University of California, and of other colleges and universities of approved grade; (2) students of the University of California who have attained junior standing in the College of Letters and Science or in the College of Commerce.

For further information see the annual announcement of the school, to be obtained from the Recorder of the Faculties.

MEDICAL SCHOOL

Matriculation.—For matriculation in the Medical School—the five years' course leading to M.D.—in and after 1922 the student must have attained senior standing in the College of Letters and Science*.

For those who enter the Medical School in or after August, 1923, senior standing in the College of Letters and Science requires the attainment of the Junior Certificate (see this Circular, under College of Letters and Science), and the subsequent completion of at least 27 units of work of which 18 shall normally be in upper division courses. The total number of college units presented must be at least 90. On the completion of the first year's work in the Medical School, the degree of A.B., College of Letters and Science, will be granted.

*NOTE.—Students who enter the Medical School in August, 1922, will be matriculated with the above requirements or may present at least 94 units of work in the College of Letters and Science, including normally 18 units of upper division work taken in the third year, according to the plan outlined in the 1919-20 Circular of Information, pp. 54-56 under caption *Premedical Curricula*. On completion of the first year's work in the Medical School the degree of A.B., College of Letters and Science, will be granted.

Students entering the Medical School in August, 1921, may follow the 94-unit plan, receiving the A.B. on the completion of the first year's work in the Medical School, or the 64-unit plan (see 1919-20 Circular of Information, pp. 53-56), omitting the bachelor's degree.

In addition to the above general requirements, the student must give evidence of sufficient training in physics, chemistry, biology, English literature and composition to enable him to pursue with profit the curriculum of the school and must possess a reading knowledge of French or German. The following courses now offered represent the minimum of satisfactory preparation in the subjects named (numbers refer to the Announcement of Courses for 1920-21): English 1A-1B (6 units); Chemistry 1A-1B, 8, 9; Physics 2A-2B and 3A-3B; Zoology 1A-1B. Ten units credit in French or German will be accepted as fulfilling the requirement of a reading knowledge in these subjects.

By a resolution of the Academic Senate the faculty of the Medical School is authorized to refuse admission to applicants with a low record in the required academic subjects.

The State law governing the practice of medicine in California prescribes that every person before practicing medicine or surgery must produce satisfactory testimonials of good moral character and a diploma issued by some legally chartered medical school, the requirements of which shall have been at the time of granting such diploma in no particular less than those prescribed by the laws of the State, and which shall have received the approval of the Board of Medical Examiners that year. The requirements for matriculation in the University of California Medical School as above stated cover also the requirements of the Association of American Medical Colleges, provided that the high school programme includes the subjects listed in the following paragraphs.

PREMEDICAL CURRICULUM—THREE YEARS

The following tabulated curriculum represents the most satisfactory arrangement of work to meet the medical prerequisite courses, as prescribed for those entering the Medical School in or after August 1923. The student should however, make certain that his course is so arranged as to satisfy the junior certificate and other requirements of the College of Letters and Science so that his entrance to the Medical School and the attainment of his A.B. and M.D. may not be delayed. Certain variations in the chronological arrangement may be necessitated if the high school course included the minimum of foreign language work. Such variation may be made with the approval of the Faculty Adviser.

This curriculum assumes the completion of the following subjects in the high school: English, 3 years; history, one year; mathematics, two years, (algebra and plane geometry); chemistry, one year; physics, one year; foreign language (French or German), 2 years. The junior certificate requirements will be more easily met if foreign language study has been pursued four years in the high school.

MEDICAL SCHOOL—PREMEDICAL CURRICULUM

	<i>First Year</i>		Total units
	Units first- half	Units second- half	
*Subject A (examination in English expression)....	....	....	....
Military training.....	1½	1½	
Physical Education.....	½	½	
Hygiene lectures.....	2 or 1	....
General Inorganic Chemistry and Qualitative Analysis, with laboratory (Chemistry 1A-1B)	5	5	
English 1A-1B.....	3	3	
†Electives.....	3 or 4	5	
	15	15	30
<i>Second Year</i>			
Military Training.....	1½	1½	
Physical Education.....	½	½	
Elements of Organic Chemistry (8).....	3	....
Elements of Organic Chemistry laboratory (9)..<	3	....
General Physics 2A-2B.....	3	3	
Physics 3A-3B—physical measurement laboratory	1	1	
†Electives.....	3	9	
	15	15	30
<i>Third Year</i>			
General Zoology, including Embryology (1A-1B)	4	5	
Electives.....	11	10	
	15	15	30
			90

In order to exhibit the distribution of the time between laboratory and class exercises, the following table will be found useful:

	"Hours" per week (50 minute periods)		Credit in semester units
	Recitation or lecture	Laboratory	
Chemistry 1A.....	3	6	5
Chemistry 1B.....	3	6	5
Chemistry 8.....	3	....	3
Chemistry 9.....	....	8	3
Physics 2A.....	3	....	3
Physics 2B.....	3	....	3
Physics 3A-3B.....	....	6	2
Zoology 1A.....	2	4	4
Zoology 1B.....	3	6	5
Hygiene 2.....	2 (women)	....	2 (women)
Hygiene 1.....	1 (men)	....	1 (men)
Military 1A.....	1	2	1½
Military 1B.....	1	2	1½
Military 2A.....	1	2	1½
Military 2B.....	1	2	1½
Physical Education A.....	....	2	½
Physical Education B.....	....	2	½
Physical Education C.....	....	2	½
Physical Education D.....	....	2	½
English 1A.....	3	....	3
English 1B.....	3	....	3
†Foreign Language.....	10	....	10
Subject A: examination in English expression.....	....	....	0

* An examination in Subject A: English Composition is required of all intrants at the time of their first registration in the University. Date of next examination: Saturday, August 14, 1920, 2 p.m. For further regulations concerning Subject A see General Regulations of the Faculties.

† See requirements for the Junior Certificate, College of Letters and Science.

MEDICAL CURRICULUM—FIVE YEARS

In the fifth or intern year the student is required to act as intern in an approved hospital or as special worker in a department of the Medical School. By arrangement with the department concerned this may be done at any time after the completion of the first year and a half of medical work.

For further information see the annual announcement of the Medical School, to be obtained from the Secretary of the Medical School, Parnassus and Third avenues, San Francisco.

CURRICULA IN PUBLIC HEALTH

There are three curricula in public health, designated by the letters A, B, and C. Curriculum A is intended for general students in public health; curriculum B is intended for students holding the degree of Bachelor of Science from the College of Civil Engineering; curriculum C is intended for students of medicine and may be substituted for the second half of the fourth year, and fifth, or intern, year in the Medical School without affecting candidacy for the degree of Doctor of Medicine.

While enrolled in the Medical School students in the Public Health course are subject to the usual fee of \$75 per half-year.

For completion of any of these curricula the degree of Graduate in Public Health (Gr.P.H.) is conferred.

With the permission of the Committee on Public Health Study-Lists courses may be substituted for those shown in the following curricula to the extent of not more than six units in any half-year.

CURRICULUM A

A four-year course, three years in the College of Letters and Science and one year in the Medical School.

Requirements for Admission to the Course.—The junior certificate in the College of Letters and Science including a reading knowledge of French or German, Physics 2A-2B, Chemistry 1A-1B, Bacteriology 1, Zoology 1A-1B.

The student is advised to avoid strict specialization in science and to devote his elective units as far as practicable to subjects of general culture. The following courses, however, should be completed: Chemistry 8 and 9, Economics 1A-1B.

In order to satisfy the requirements for the degree of Bachelor of Arts based on the first two years of this curriculum, the student must complete at least thirty-six units selected from the following list of courses. The thirty-six units must be distributed among the subjects as indicated.

In order to satisfy the requirements for the degree of Master of Arts in Public Health, or in order to proceed to the final year of this curriculum

which is given in the Medical School, the student must have completed twelve units chosen from the following list of courses, in addition to the thirty-six units completed for the bachelor's degree.

The curriculum for students who hold an academic bachelor's degree based in part on the curriculum of an acceptable training school for nurses will be determined for each candidate by the Committee on Public Health Study-Lists.

Subjects	Units	Selected from the following: Courses	Units
Anatomy.....	3	Anatomy 102.....	3
Bacteriology.....	7	Bacteriology 101.....	7
Biochemistry and Physiology.....	4	Hygiene 108A-108B.....	10
Epidemiology and Public Health Administration.....	6	Biochemistry 101A.....	9
Human Nutrition.....	5	Physiology 101.....	5
Parasitology and Protozoology.....	5	Hygiene 104.....	3
		Hygiene 107.....	3
		Household Science 106.....	5
		Entomology 126.....	5
		Zoology 110.....	2
		Zoology 110c.....	2
		Zoology 111.....	2
		Zoology 111c.....	2
Sanitary Engineering.....	3	Civil Engineering 124.....	3
Statistical Methods and Social Economics.....	3	Civil Engineering 128.....	3
		Economics 140.....	4
		Economics 180.....	3
		Economics 181.....	3
Total.....	36		

SECOND GRADUATE YEAR

GIVEN IN THE MEDICAL SCHOOL

First Half-year.	Units
First month.—Lectures and out-patient clinics in the University of California Hospital. Such work will be arranged for each individual student in the various medical, surgical, and children's clinics.....	4
Second month.—Work with the Social Service Department of the University of California Medical School.....	4
Third month.—Work with the San Francisco Health Department. Investigation of city health problems, such as birth problems, morbidity statistics, etc.....	4
Fourth month.—Work with the California State Board of Health. Investigation of state health problems in connection with bureaus in Berkeley.....	4
	16
Second Half-year.	
First and second months.—Out-patient Department work and lectures in specialties..	8
Third and fourth months.—Research and writing of thesis under direction of Public Health Study-Lists Committee.....	8
	16

CURRICULUM B

A two-year course, one year in the College of Letters and Science and one year in the Medical School. Prerequisite: the degree B.S. conferred in the College of Civil Engineering upon students who have completed the undergraduate curriculum in sanitary engineering.

Students electing this curriculum will find it advantageous to include Physiology 101 and Anatomy 102. With the consent of the committee these courses may be substituted for courses listed.

Undergraduate Departments

V (FIRST GRADUATE YEAR)

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Subjects	Units
Bacteriology 101.....	7	Economics 181.....	3
Hygiene 107.....	3	Entomology 126.....	5
Hygiene 108a.....	5	Hygiene 104.....	3
		Hygiene 108b.....	5
Total.....	15	Total.....	16

VI (SECOND GRADUATE YEAR)

Year in Medical School as listed in Curriculum A.

CURRICULUM C

A course of one and one-half years, one year in the College of Letters and Science and one half-year in the Medical School. Prerequisite: completion of the first three and one-half years of the medical curriculum. At the end of the fifth year the degree of M.D. in the Medical School and the degree of Gr.P.H. in the College of Letters and Science will be conferred.

In the cases of persons holding the degree of M.D. from acceptable schools the curriculum required will be determined for each candidate by the Committee on Public Health Study-Lists.

IV

<i>Second Half-year</i>	
Subjects	Units
Civil Engineering 128.....	3
Civil Engineering 124.....	3
Entomology 126.....	5
Hygiene 104.....	3
Hygiene 108a.....	5
Economics 181.....	3
	22

V

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Assignments	Units
Hygiene 107.....	3	San Francisco Health Dept.....	4
Hygiene 108a.....	5	Social Service Dept.....	4
		State Board of Health.....	4
Total.....	8	Field work in Epidemiology Research (with thesis).....	4
		Total.....	16

**GENERAL REGULATIONS OF THE FACULTIES CONCERNING
STUDENTS IN THE ACADEMIC DEPARTMENTS**

Following are certain general regulations governing residence and study in the academic departments. These regulations, unless otherwise stated, concern both graduate and undergraduate students.

ADMISSION AND CLASSIFICATION

The status of all undergraduate students shall be probationary during their first year of residence. At the close of the probationary period the question of the status of each student shall be reviewed by the Committee on Study-Lists of the college in which the student is enrolled, and his status shall then be determined by the Faculty, acting upon the recommendation of said committee.

Persons admitted to the University who, in the judgment of the Board of Admissions, have satisfactorily completed one year's work of collegiate grade shall be regarded as students in the second year of the course.

Persons admitted to the University who, in the judgment of the Board of Admissions, have satisfactorily completed two years' work of collegiate grade shall be regarded as students in the third year of the course.

Students who are classed as juniors shall be regarded as students in the third year of the course. Students who have attained junior standing are in the upper division, which includes the third and fourth years of the course.

Regular undergraduate students and students at large retain their privileges as students so long as they maintain good standing in the University. The university membership of all special students and limited students, on the other hand, terminates at the close of each academic year, but may be renewed from time to time at the discretion of the proper faculty.

Any student may be transferred from one college of the University to another upon the approval of the Dean or other responsible officer or committee of the college to which admission is sought. A form of petition for such transfer is supplied by the Recorder.

A student at large, special student, or limited student may at any time attain the status of regular student by satisfying all the requirements imposed upon the regular members of the class he desires to enter.

ROUTINE OF REGISTRATION

No student of the University may undertake any work or examination with a view to credit for a university degree without registration for such work or examination with the Recorder of the Faculties; such registration must be accepted by the proper faculty before the work proposed is undertaken. Students of good standing with a limited amount of regular class work may be permitted, on the basis of private study outside of university classes, to take certain matriculation or university examinations for the purpose of gaining advanced standing, but in all such cases the authorization of the proper faculty must be secured by written petition before preparation for such examination is begun.

All students shall register with the Recorder of the Faculties their choice of courses to be pursued in any half-year, on blanks provided for the purpose, at such time and place as may be designated for such registration. Registration at a later date can be effected only through special application to the Dean of the college in which the student is enrolled. A fee of two dollars is charged for late registration.

Students in year courses must register with the Recorder for such courses in January as well as in August.

Students are sometimes permitted to register for year courses in the second half-year without having been registered in the first half-year. In such cases credit is given for the work of the second half-year only.

The names of students who fail to comply with the regulations governing registration will not appear on the official class rolls.

No person will be admitted as a student to the exercises of any professor or instructor, except as authorized by the official certificate of registration and duplicate study-card furnished to each student by the Recorder, subject to the approval of the proper Study-Lists Committee.

Simultaneous enrollment in resident courses and in extension courses is permitted only when the entire programme of the student is duly approved by the proper dean or study-list officer, and registered with the Recorder of the Faculties before the work is undertaken.

After the study-cards are filed, students will be given an opportunity to make changes, by formal petition, duly approved by the instructors concerned. But after the expiration of the period assigned for such changes, all *additions* must be distinctly approved and recommended by the instructors; and for every course added or dropped from the study-card a fee of one dollar will be charged.

Every regular student shall include in his study-card all required work appropriate to the college and year of his course. [The rules governing the choice of studies of *regular students* are stated in the description of the curricula of the several colleges.] The Committee on Study-Lists of

his college is authorized to withdraw such study-cards as do not comply with this regulation.

When a student's study-card is withdrawn he is thereby suspended from participation in all university exercises.

UNITS OF WORK AND CREDIT; STUDY-LIST LIMITS

Both matriculation and university work are measured in "units." In the University a *unit of registration* is one hour of a student's time at the University weekly, during one half-year, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring preparation. Credit for 120, or more, units distributed according to the requirements of the college in which the student is enrolled is necessary for a degree.

Regular students who are free from deficiencies in their university work may register for not to exceed 19 units of new work, except in the College of Agriculture, where the limit is 18 units. *But in no case may a student in the upper division of the colleges of Letters and Science and Commerce register for more than 16 units, including repeated units if any.* Regular students with deficiencies will be limited to 16 units, including repeated work. Freshmen and sophomores who are taking the *prescribed courses* in physical education, hygiene, or military science may, with the express approval of the Study-Lists Committee, add these courses to the *maxima* as stated herein. Any work undertaken in the University or elsewhere with a view to credit toward a degree must be included in the *maxima*, as above. Work reported by the instructors as "incomplete" is regarded as deficient work.

Special students have free election, subject to the requirement that they confine their attention to some special study and its related branches.

Limited students have all their studies elective, but may take not more than thirteen units a week.

SUBJECT A: ENGLISH COMPOSITION

All intrants to the colleges at Berkeley must, at the time of their first registration in the University, present themselves for examination in Subject A: English Composition. Further provisions are as follows:

- (1) Students who pass Subject A with grade 1 or 2 are not required, but are advised, to continue their training in oral and written composition.
- (2) Students who pass Subject A with grade 3 are required to take English 1X during their freshman or sophomore year, and junior standing will not be granted them until they have passed the course.
- (3) Students who receive grade 4 or 5 in Subject A are conditioned in the subject, and they will not be granted junior standing until they have passed the

examination. They will be required to take, without credit, a course in English composition, especially designed to meet their needs, and calling for one period of class instruction per week, together with written exercises and conferences, until they have passed in Subject A. Those who pass with grade 3 will not be granted junior standing until they have fulfilled the requirements under 2 above. No student who has not passed Subject A will be admitted to any university course in oral or written composition other than the course described above, except that foreign students may be permitted to elect a course especially designed for them. (4) Intrants who fail to present themselves for the examination at the time appointed will be charged a fee of two dollars when they enter the examination for the first time. (5) For students who enter with advanced standing Subject A is a requirement for junior standing. To those who pass with grade 3 English 1x is prescribed. (6) Failure in the examination does not prevent admission to the University. (7) The examination will be given at the University, at the opening of the Fall and Spring sessions, on the Saturday that precedes the beginning of instruction. (See announcement of entrance examinations.)

The examination will be composed, set, and judged under the direction of the Committee on Subject A, and its requirements and penalties will be enforced by the deans and other proper authorities of the several colleges, including the study-lists committees.

MILITARY SCIENCE, PHYSICAL EDUCATION AND HYGIENE

All undergraduate students shall, upon admission to the University, report immediately to the proper officers for enrollment in military science, physical education, and hygiene, following the Freshman Circular or the announcements which may be posted on the University bulletin boards. A deposit (about thirty-three dollars) must be paid at once to the Comptroller of the University to cover the cost of the uniform and text book to be used in military courses. Students shall list these courses upon their study-cards with other University courses.

Petitions from students for excuse from, or deferment of, military science, physical education, or hygiene, filed by the petitioner after the expiration of two weeks following the date of the student's registration, will not be received except for illness or physical disability occurring after such date. Students who petition to be excused from these subjects or from any of them should nevertheless present themselves to the proper instructors for enrollment during the pendency of petitions.

In case a student subject to these requirements shall list the prescribed course or courses on his study-card and thereafter without authority shall fail to appear for work in such course or courses, after a reasonable time,

the neglect shall be reported to the Recorder, who, with the approval of the President, shall forthwith withdraw the study-card of the student. When a student's study-card is withdrawn he is thereby suspended from participation in all university exercises. Of such suspension it shall be the duty of the Recorder to inform immediately the Study-Lists Committee in charge of the student's programme. With the approval of the professor in charge of the work, the Recorder is authorized to reinstate the student, and shall notify the Study-Lists Committee of such reinstatement.

[A circular containing information concerning the requirements in military science, physical education, and hygiene, including a statement of the grounds upon which students may be excused from this work, may be obtained from the Recorder of the Faculties.]

AUTHORITY OF INSTRUCTORS

No student will be permitted to enter upon the study of any subject if the officer of instruction in charge of that subject is satisfied that by reason of lack of preparation he is not competent to undertake it. This rule takes precedence of all others.

Every student is required to attend all his class exercises and to satisfy the instructor in each of his courses of study, in such way as the instructor may determine, that he is performing the work of the course in a systematic manner.

Any instructor, with the approval of the President, may at any time exclude from his course any student who, in his judgment, has neglected the work of the course. Any student thus excluded shall be recorded as having failed in the course of study from which he is excluded, unless the Faculty shall otherwise determine.

EXAMINATIONS

Final examinations will be assigned for all undergraduate courses excepting only such seminary, laboratory, and other courses as shall have been exempted by authorization of the Academic Senate, and shall have been so listed in the annual Announcement of Courses. They will, so far as practicable, be conducted in writing, and a maximum time will be assigned beforehand for each, which no candidate will be allowed to exceed. Except in laboratory courses, the time for examination sessions shall not be more than three hours.

In the five-hour language courses there are no final examinations, and students are graded upon their term work and mid-term examinations.

In the year courses of the professional curriculum in jurisprudence mid-year reports may be made without formal examination, and such reports shall be final.

Any department may examine students, at the end of the half-year immediately preceding the student's graduation, in the major subject in which such department has given instruction; and students to be examined in a major subject shall be excused from all course examinations in which said students shall have been enrolled during said half-year in the department of the major subject.

No student will be excused from assigned examinations.

Any student tardy at an examination will be debarred from taking it, unless an excuse for such tardiness entirely satisfactory to the examiner be rendered.

A fee of five dollars is charged for every special examination. Any supplementary or deferred test required by an instructor of a student for the purpose of making up a course left "incomplete" is regarded as a special examination. Students taking two or more such examinations in courses taken during *any one half-year* will be charged not to exceed ten (10) dollars for all such examinations, instead of being charged at the rate of five dollars for each examination.

Re-examinations are permitted only for the purpose of *removing deficiencies*. Students who have received second grade or third grade in a given course are not allowed re-examinations for the purpose of improving their grading.

Application for examination for advanced standing on the basis of work done before entrance to the University should be made to the University Examiner upon entrance to the University.

GRADES OF SCHOLARSHIP

The results of examinations, together with term work when a record of the latter is kept, will for all undergraduate students be ranked and reported to the Recorder in five grades. The *1st grade* denotes marked excellence. The *2nd grade* indicates that the student's work has been thoroughly satisfactory. The *3rd grade* denotes a pass. Courses in which students have obtained a *4th grade* will not be credited to them, except upon the condition of passing a re-examination. The *5th grade* indicates failure, and the necessity of repeating not only the examination of a course but also the regular work. The report in case of absence from a required examination, or of failure to perform any of the allotted tasks in a given course, is *incomplete*.

The reports in December, as in May, are final reports, not provisional reports, with the following exception: if the organization of the work permits and if the deficient student retains his status in the University, a *grade 4* or an *incomplete* in the first half of a year course (a "double-number" course) may, at the discretion of the instructor in charge, be

removed upon the basis of the regular work and examinations of the second half-year. In every such case the student should apply promptly to his instructor for advice. It is not to be assumed that a passing grade in the work of the second half-year removes a deficiency in the first half-year.

Graduate students may be ranked and reported in the foregoing grades or they may be graded merely *passed* or *not passed* at the discretion of the instructor in charge.

The entrance examinations are ranked and reported to the Recorder in five grades, corresponding with the five grades used for reporting upon university courses. In the case of entrance examinations, either a fourth grade (condition) or a fifth grade (failure) may be removed by passing a second examination.

CONDITIONS AND FAILURES

For the removal of conditions, the student has the privilege of taking the regular midyear or annual examinations in the subjects in which he is conditioned. Examinations may be held at other times only by the special permission of the Academic Senate and on payment of a fee of five dollars.

Every undergraduate student is required each half-year either (1) to pass in at least ten (10) units of duly registered work, or (2) to pass with *first* or *second* grade in courses aggregating at least eight (8) units of duly registered work; or—if registered for less than eight units—to pass with first or second grade in all of the courses taken. Any student who fails to satisfy this requirement will be dropped from the roll. Independently of this rule, any student who neglects any part of the work for which he is registered (regardless of the number of units passed) may be dropped from the roll by faculty action. Any student dropped from the roll may be reinstated, after an interval of at least one half-year, for reasons satisfactory to the Committee on Disqualified Students. It is therefore absolutely necessary for any disqualified student who proposes to return to the University to communicate without delay with this committee, through the Recorder of the Faculties, in order that the question of reinstatement may be considered by the committee and in order that the student may have ample opportunity to prepare for examinations or other tests which the committee may impose.

Any student who is reported as having failed in an examination, or who, after being conditioned, does not pass the re-examination for the removal of the condition, will be required to repeat every such deficient subject with the class that next takes it; unless, on recommendation of the officer of instruction in charge, the Faculty shall permit him to review a subject in which he is thus deficient with the assistance of an acceptable

private tutor; in which case he will be excused from attending the recitations, but will be required to take the regular examinations at the end of the year or half-year.

Deficiencies in military science and physical education have the same effect as deficiencies in other subjects.

A matriculation deficiency in a subject continued in the University, in which the deficient student attains a rank of second grade, may be removed by the proper faculty on the recommendation of the officer of instruction in charge of the subject, with the approval of the chairman of the department. Students, however, are cautioned not to assume in advance that this will be done. In some departments no matriculation credit is given except upon matriculation examination.

LEAVE OF ABSENCE AND HONORABLE DISMISSAL

Prolonged leave of absence must be sought by written petition to the proper faculty.

Brief leave of absence. A student must apply for leave to be absent or excuse for having been absent from any college exercise other than an examination to the officer of instruction in charge of such exercise; unless, for unavoidable cause, the student is obliged to absent himself from all college exercises for one day or for several days, in which case the proper dean has authority to excuse. No excuse for absence will relieve the student from completing all the work of each course to the satisfaction of the instructor in charge.

Discontinuance without notice. Students who discontinue their work without formal leave of absence do so at the risk of having their registration privileges curtailed or entirely withdrawn.

Honorable dismissal, indicating that the student, while in good standing, has voluntarily severed his connection with the University, should be sought by written petition to the proper faculty. Without such petition no record of honorable dismissal will be made.

DISCIPLINE

The University authorities expect all students to set and observe among themselves a proper standard of conduct. It is therefore taken for granted that, when a student enters the University, he has an earnest purpose and studious and gentlemanly habits; and this presumption in his favor continues until, by neglect of duty or ungentlemanly behavior, he reverses it. But if an offense occurs, whether it be against good behavior or academic duty, the University authorities will take such action as the particular occurrence, judged in the light of the attendant circumstances,

may seem to them to require. Students who fail to make proper use of the opportunities freely given to them by the University must expect to have their privileges curtailed or withdrawn.

Grades of Censure.—Censure will be expressed in the four grades of probation, suspension, dismissal, and expulsion. Probation indicates that the student is in danger of exclusion from the University. Suspension is exclusion from the University for a definite period. Dismissal is exclusion for an indefinite period, and with the presumption that the student's connection with the University will be ended by it. Expulsion is the highest academic censure, and is final exclusion of the student from the University.

ATHLETICS

There is a standing committee on athletics, whose duty it is to supervise all matters relating to athletic contests, to promulgate and publish rules for the conduct thereof, and to represent the Academic Senate and Faculties in all matters that concern intercollegiate and other sports. This committee exercises its discretion in the conduct of all minor and routine matters relating to athletics, but on questions of broad university policy reports to the Senate. The faculties exercise such supervision over athletic contests, both intercollegiate and local, and over all matters pertaining thereto, as may appear necessary for the best interests of the University.

THESES FOR BACHELORS' DEGREES IN ENGINEERING AND AGRICULTURE

1. A student in any of the Engineering Colleges or the College of Agriculture may freely elect his thesis in any department offering work in the last two years of the college in which he is enrolled.

2. The subject of the thesis and the methods of work involved shall be appropriate to the aims of the college in which the student is enrolled.

3. On or before the first Monday of October of his senior year the student must present to his Study-Lists Committee a special Thesis Registration Card stating the department and the instructor with whom he elects to do his thesis work. This card must be approved by the instructor concerned.

4. The same rules and regulations shall apply to the thesis work that govern the student in regard to instruction, methods of withdrawal or substitution, grading, failure, etc., in other courses of instruction.

5. The candidate must report to the instructor in charge of his thesis work whenever called upon to do so.

6. The thesis must be presented in form sufficient for final examination and criticism by the instructor on or before the first Monday in April

7. The thesis must be submitted complete on or before the last day of April.

8. A student expecting to be graduated in December must have his thesis subject approved on the third Monday of the preceding February, present the work for examination and criticism on or before the third Monday in November, and submit the thesis complete on or before the last day of November. In all other respects he will be guided by the above instructions, 1-7.

NOTE.—The size of page for theses is $8\frac{1}{2} \times 11$ inches. Record ink should be used. For further instructions the student should consult the department in which his thesis work is taken.

HONORS

(a) Concerning honors with the bachelor's degree in the College of Letters and Science, in the College of Chemistry and in the College of Commerce see the sections explanatory of the work of these respective colleges in earlier pages of this circular.

(b) In the Colleges of Engineering and Agriculture students may receive honors with the bachelor's degree on the basis of the quality of the work done in the regular curriculum of the senior year, or of a thesis showing ability to do original work, or of distinction in the advanced work of any department, as attested by the recommendation of that department.

DEGREES

Every undergraduate student who intends to become a candidate for a degree must file with the Recorder of the Faculties a detailed schedule of studies offered for the degree sought. This schedule must be filed by regular students at least six calendar months, by all other students at least one full academic year, before the date proposed for graduation, and must be approved by the committee on graduation of the college in which the student is enrolled.

Of the one hundred and twenty (or more) units required for the bachelor's degree at least twenty-four units must have been completed at this University in resident courses of instruction taken during the final or senior year.

Courses not required by the curriculum for graduation may be dropped from the record of any student on formal petition to the Faculty concerned.

All the graduates of any one calendar year—January 1 to December 31—shall be ranked as belonging to the so-called class of that year.

RESIDENCE

Residence at the University is residence in its vicinity and attendance upon such of its exercises as are appointed for the student. In this sense, residence at Mount Hamilton is residence at the University for such students as have been appointed to work at the Lick Observatory, residence at La Jolla is residence at the University for such students as have been appointed to work in the Marine Biological Laboratory, and residence at Davis is residence for such students as have been appointed to work at the University Farm. In the graduate division, residence at any place, or in any field, which may be designated by the proper faculty as suitable for the work of a candidate for one of the advanced degrees is regarded as residence at the University.

THE GRADUATE DIVISION

For information regarding all matters pertaining to the Graduate Division, including the requirements for the degrees of Master of Arts, Master of Science, Graduate in Public Health, Graduate in Architecture, Juris Doctor, Mechanical Engineer, Electrical Engineer, Civil Engineer, Metallurgical Engineer, Mining Engineer, and Doctor of Philosophy see the Announcement of the Graduate Division, to be obtained upon application to the Dean of the Graduate Division.

GENERAL INFORMATION

DEANS OF THE COLLEGES

The duties of the Deans of the several colleges at Berkeley are as follows:

1. To issue excuses for brief absence to students enrolled in their respective colleges in all cases in which the absence shall exceed one day. For single absences instructors shall have power to excuse.
2. To answer inquiries from students of their respective colleges, or from their parents or guardians, as to the rules and regulations of the University; and to give information or explanation to students and others who may be in doubt as to the requirements or methods of procedure.
3. To act as advisers of students in their respective colleges, or to designate advisers for them from their respective faculties.

THE DEAN OF THE UNDERGRADUATE DIVISION

The Dean of the Undergraduate Division assists the President of the University and the faculties of the academic colleges in matters pertaining to the general and personal interests of undergraduates.

THE DEAN OF WOMEN

The Dean of Women assists the President of the University and the faculties of the academic colleges in matters pertaining to the general and personal interests of the women students of the University.

LIVING ACCOMMODATIONS

The cost of board and lodging (1) in boarding houses in or near Berkeley is \$40 to \$55 a month; (2) in fraternities and students' clubs from \$35 to \$50 a month. (3) For students living in housekeeping rooms and "boarding themselves" the expenses may be reduced as low as \$25 to \$35 a month, but this plan of living is not generally recommended. (4) The hours of recitation are such that students may commute from their homes in Oakland and San Francisco. (5) Families or groups of mature students who wish to rent furnished houses or apartments should apply to the local real estate agents. Rents near the campus for housing eight or more persons range from \$65 up, unfurnished. A two-room furnished apartment with bath and kitchenette, janitor service, heat and house laundry rents from \$50 up. (A list of real estate agents will be supplied on request.)

There are no dormitories maintained by the University. Accommodations in private boarding houses near the University are limited. Students are advised to make arrangements for their living quarters well before the opening of the University. It is expected that the difficulty of obtaining suitable rooms will increase rather than diminish during the coming year. Lists of boarding places approved by the University authorities are published at the opening of every session, one list for men and another for women. No freshman woman is permitted to complete her registration unless her boarding place is first approved by the Dean of Women.

Lists of approved boarding places and further advice concerning living accommodations may be obtained at the office of the Dean of Women, 205 California Hall, and at the office of the Dean of the Undergraduate Division, 207 California Hall.

EMPLOYMENT

Opportunities for Self-Support.—Men students desiring employment should apply for information at the Employment Bureau, 113 California Hall.

The Employment Bureau acts only as an agent for the purpose of bringing together employers and students desiring work. It does not undertake to make arrangements with respect to remuneration.

Women students desiring employment should apply at the office of the Dean of Women, 205 California Hall, 9 a.m. to 12 m. daily. Board and lodging can be obtained in exchange for three or four hours of household work daily. Opportunities also exist for obtaining employment on an hourly basis in the following fields: typewriting and stenography, clerical work, tutoring, telephone service, housework, care of children, general manual labor, etc. A student qualified to do draughting, computing and other technical work can occasionally find employment on a more remunerative basis than in these fields.

Self-supporting students are respected. With reasonable diligence a student can devote from twelve to twenty-five hours per week to outside work without seriously interfering with college work of from twelve to sixteen units (involving thirty-six to forty-eight hours per week). It should always be borne in mind, however, by students seeking employment that not every kind nor every amount of outside work is entirely compatible with the student's main purpose at the University, namely, his education. Only in rare instances can a student be entirely self-supporting.

The Young Men's Christian Association acts as a bureau of information concerning boarding places and opportunities for remunerative employment.

Applicants for employment in teaching or tutoring should apply at the office of the Appointment Secretary, 102 California Hall. These agencies, however, can do little for students who are not actually on the ground to negotiate for themselves. It is usually so difficult for a stranger to secure remunerative employment from the start that, in general, no one should come to Berkeley expecting to become self-supporting through the university course without having on hand at the beginning sufficient funds to cover the expenses of the first half-year.

EXPENSES OF STUDENTS

For cost of board and lodging see above.

Tuition in the academic colleges at Berkeley and tuition at the Lick Observatory is free to residents of the state. Non-residents of California are charged a tuition fee of ten dollars each half-year. Tuition in the

Médical School and in the College of Dentistry, both for residents and non-residents, is \$150 a year. Students in Public Health, Curricula A and B, are subject to a fee of \$150 for the year spent in the Medical School; students in Curriculum C are subject to the fee of \$75 during the half-year in the Medical School (second half-year of the fifth year). The following incidental expenses are to be met:

Gymnasium and Infirmary Fees.—The gymnasium fee is \$2 per half-year and the infirmary fee is \$3 per half-year; both are payable by every student, graduate or undergraduate, before his study-card is filed. These fees entitle students to gymnasium and hospital privileges, and are not remitted, in whole or in part, for those who may not desire to make use of these privileges. Gymnasium privileges comprise, besides the use of the gymnasium, tennis courts, swimming pool, baths, lockers, washrooms, etc. The infirmary fee entitles students, in case of illness, to hospital care (cost of surgical operations not included) or dispensary treatment. One-half of the amount of these fees is returned to students who leave the University during the first half-year before September 1 or during the second half-year before February 1.

A law library fee of \$12.50 per half-year is payable at the time of registration by every student registering in more than one professional course in law.

Laboratory fees.—In the laboratories a charge is made for materials actually used. This charge, for students in the elementary laboratories, amounts to from \$5 to \$30 per annum.

The military uniform deposit is \$30, and the *military text book deposit* is \$3; both deposits are payable by every student subject to military training before his study-card is filed. Military training is prescribed for all first- and second-year undergraduate male students who are citizens of the United States, able-bodied, and under twenty-four years of age at admission to the University. The United States furnishes uniforms and some text books for the use of students receiving military training. The University being responsible for uniforms and text books furnished by the United States requires the student to deposit with the Comptroller an amount necessary to cover the cost of the articles issued him. The deposit is refunded at the close of the academic year, or upon the student's withdrawal from the University, provided the student then returns in good condition all articles issued him. The amount necessary to replace articles not returned by the student will be retained by the Comptroller. The text books are loaned the student through the University Library. The uniform is furnished the student by the Supply Officer at Military Science Building.

Other expenses are: Gymnasium outfit for men, about \$4; for women, about \$10; books and stationery, from \$18 to \$25 per annum. All students

are eligible to membership in the Associated Students of the University of California. The cost of a membership card is about \$5 per year. The card entitles the holder to participation in the affairs of the Associated Students; a free subscription to the *Daily Californian*; free admission to all athletic contests held on the campus under the jurisdiction of the Associated Students with the exception of final intercollegiate contests, and membership in the Associated Students' Store with the privilege of rebates on all purchases.

The *ordinary yearly expenses* of a student in the academic departments, including personal expenses, would probably be at least \$700.

INFIRMARY

In return for the infirmary fee, each student is entitled to consultation, and medical and hospital care at the infirmary, on the campus. The daily average of dispensary consultations and treatments exceeds one hundred and fifty. Full hospital care is given in case of serious illness. There is no charge, beyond the infirmary fee, for ordinary medical or hospital service; but if a surgical operation or a special nurse be required the cost must be borne by the patient. A small hourly charge is made for dental service.

SCHOLARSHIPS AND FELLOWSHIPS

A circular concerning undergraduate scholarships may be obtained from the Recorder of the Faculties. Information concerning graduate scholarships and fellowships may be obtained from the Dean of the Graduate Division, University of California, Berkeley.

UNIVERSITY EXTENSION

The Extension Division serves persons who seek training and information but who cannot attend the University. It is a means of extending to the people of California, so far as practicable, the usefulness of the University. It aims to help as many citizens as possible to utilize their leisure and to meet more fully their civic responsibilities. It aims to help official and voluntary groups to make their communities stable, prosperous, and progressive. It aims to promote sound public opinion in support of American institutions and ideals.

The work covers two fields of activity, instruction and public service, and is carried on through six departments.

I. INSTRUCTION

1. The Department of Class Instruction organizes and conducts classes in cities and towns wherever a sufficient number of people can be secured who wish to study the same subject. Instruction is offered in languages, literature, public speaking, mathematics, political science, business branches, economics, engineering, technical branches, and other subjects.

2. The Department of Correspondence Instruction offers instruction by mail in languages, literature, mathematics, music, drawing, education, political science, engineering, geography, etc. Courses may begin at any time.

3. The Department of Lectures provides lectures singly or in series for any committee, club, organization, or community in the state that will make the necessary arrangements.

II. PUBLIC SERVICE

1. The Department of Municipal Reference is a clearing house for inquiries concerning municipal government and administration. It is allied with the League of California Municipalities.

2. The Department of General Information undertakes to answer inquiries, of whatever nature, addressed to it, utilizing for this purpose the resources of the University.

3. The Department of Visual Instruction circulates stereopticon slides and motion picture reels. These cover many phases of educational work. They are sent in rotation through the schools of the state and are studied by public schools as part of the curriculum and by parents and citizens as a feature of community service.

Complete information with regard to University Extension, including methods of organizing classes and lecture centers, fees, and the granting of credit towards a university degree, will be sent on application. Address the Extension Division, University of California, Berkeley.

APPOINTMENT REGISTRY FOR TEACHERS

In January, 1898, the Regents of the University established, in the President's Office, a Registry for teachers and others who desire the co-operation of the University in securing employment. The aim is to obtain complete information in regard to all University candidates for the teaching profession. A Secretary is in charge of the lists of applicants, which include the names of many who have already won success in their professions and who seek promotion. The Secretary secures evidence in regard to the scholarship, experience, and personal qualifications of each

candidate, and on the basis of this information answers inquiries from appointing authorities.

The purpose is to secure such information as will enable the University to name the best available candidate for a given position. The practice of giving written recommendations to students, to be used at their own discretion, has been discontinued. Reports from instructors are filed in the office of the Appointment Secretary. Copies of these reports will be mailed to school officers at their request, or at the request of the student concerned. But the President reserves the right of refusing to extend the co-operation of the University to students when they apply for positions for which they are manifestly unfit. Official recommendations for positions are made only on request of those in authority. Letters requesting such recommendations should state explicitly the subjects to be taught, or the work to be done, the salary paid per year, and the time when the engagement begins. Prompt answer will be made to such letters throughout the summer vacation as well as during the university year. The Secretary will consult any member of the faculty whose advice is especially desired. There are no fees for the services of this office.

Communications should be addressed to the Appointment Secretary, University of California, Berkeley.

SUMMER SESSIONS

The summer session of six weeks is designed for teachers and other persons who are unable to attend the University during the fall and spring sessions. There are at present no formal entrance requirements, except that applicants must be persons of good moral character and must be considered by the faculty to be of sufficient maturity and intelligence to profit by attendance upon the exercises of the session. The courses of instruction are mainly of university grade, and credit toward university degrees may be given to attendants who comply with such conditions of work and examinations as may be imposed by the instructors in charge.

The Intersession conducted during the six weeks immediately preceding the summer session is designed primarily for regular students of the University. By attending both the summer session and the intersession students may obtain credit for one semester's residence and twelve units of work. The tuition fee for each session is \$20, regardless of the number of courses taken.

An Announcement of the summer session is issued in April of each year and may be obtained by addressing the Dean of the Summer Sessions, Berkeley, California.

In addition to the sessions at the University in Berkeley, a summer session is conducted at the Southern Branch of the University in Los Angeles.

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REGISTER—PART II

ACADEMIC SENATE—ALPHABETICAL LIST

DECEMBER, 1920

(NOTE.—Recent changes in the organization of the Academic Senate have made it impossible to complete the compilation of the list of members in time for inclusion in the University Register, December, 1920. It is expected that this list will be published as a separate circular in March, 1921, and will be reprinted in the Register, December, 1921.)

REGISTER—PART III

ANNOUNCEMENT OF COURSES, 1920-21

JULY, 1920

UNIVERSITY OF CALIFORNIA

**ANNOUNCEMENT
OF
COURSES OF INSTRUCTION**

**COLLEGES OF LETTERS AND SCIENCE, COMMERCE,
AGRICULTURE, ENGINEERING AND CHEMISTRY;
SCHOOLS OF ARCHITECTURE, EDUCATION, AND
JURISPRUDENCE.**

FOR THE ACADEMIC YEAR, 1920-21

**UNIVERSITY OF CALIFORNIA PRESS
BERKELEY**

1920

EXPLANATORY NOTE

CLASSIFICATION OF COURSES

I. UNDERGRADUATE COURSES.

1. *Lower Division Courses.*
2. *Upper Division Courses.*

An upper division course is an advanced course in a department of study that has been pursued in the lower division, or of elementary work in a subject of such difficulty as to require the maturity of upper division students. All upper division courses are definitely announced as such, and are given the numbers 100-199, as is explained below.

II. GRADUATE COURSES.

NUMBERING OF COURSES

Excepting only the upper division courses, *all undergraduate courses* are numbered from 1 to 99, inclusive.

Undergraduate upper division courses are numbered from 100 to 199, inclusive.

Graduate courses are numbered from 200 to 299, inclusive.

Teachers' courses are numbered 300, 301, etc. Such courses may be classified either as upper division courses or as graduate courses; however, if offered for the master's degree such courses are rated as upper division courses, not as graduate courses. For information concerning teachers' recommendations see the Announcement of the School of Education.

Year courses; double numbers. A course designated by a double number (for example, History 4A-4B) is continued through two successive half-years, that is, from August to May, or from January to December. The student will use the first number in registering for the course during its first half-year, and the second number during its second half-year. A final report will be made by the instructor at the end of each half-year; "provisional midyear reports" in year courses have been discontinued. The student may discontinue the course at the end of the first half-year, with final credit for the first half of the course, except as otherwise noted.

ABBREVIATIONS

The credit value of each course in semester units is indicated for each semester by a numeral in parentheses following the title. A semester unit is one hour of the student's time at the University, weekly, during one half-year, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring preparation. The session during which the course is given is shown as follows: I, first half-year; II, second half-year; "Yr.", throughout the year. When no hours are stated it is understood that these are to be arranged later. Further information concerning class hours will be found in the SCHEDULE AND DIRECTORY.

PREREQUISITES

With reference to major subjects in the College of Letters and Science, the statement of requirements and recommendations under "Preparation for the Major" is addressed rather to the student who desires to be well prepared to complete a full undergraduate major—possibly as a candidate for honors—than to the student who wishes merely to satisfy minimum graduation requirements.

COURSES OF INSTRUCTION OFFERED IN THE COLLEGES AT BERKELEY FOR THE ACADEMIC YEAR, 1920-21

AGRICULTURE

***THOMAS F. HUNT**, D.Agr., Sc.D., Professor of Agriculture and Dean of
of the College of Agriculture.

EDWARD J. WICKSON, M.A., Professor of Horticulture, Emeritus.

WALTER MULFORD, F.E., Professor of Forestry and Director of Resident
Instruction; Acting Dean of the College of Agriculture.

CLARENCE M. HARING, D.V.M., Professor of Veterinary Science and
Director of Agricultural Experiment Station .

BERTRAM H. CROCHERON, M.S.A., Professor of Agricultural Extension and
Director of Agricultural Extension.

HUBERT E. VAN NORMAN, B.S., Professor of Dairy Management, Vice-
Director of Agricultural Experiment Station, and Dean of Uni-
versity Farm School, Davis.

MYER E. JAFFA, M.S., Professor of Nutrition.

CHARLES W. WOODWORTH, M.S., Professor of Entomology.

***RALPH E. SMITH**, B.S., Professor of Plant Pathology.

J. ELIOT COIT, Ph.D., Professor of Citriculture (resigned September 30,
1920).

CHARLES F. SHAW, B.S., Professor of Soil Technology.

JOHN W. GREGG, B.S., Professor of Floriculture and Landscape Gardening.

JOHN W. GILMORE, M.S., Professor of Agronomy.

FREDERIC T. BIOLETTI, M.S., Professor of Viticulture.

WARREN T. CLARKE, B.S., Professor of Agricultural Extension.

JOHN S. BUDG, B.S., Professor of Agricultural Chemistry.

CHARLES B. LIPMAN, Ph.D., Professor of Soil Chemistry and Bacteriology.

ERNEST B. BABCOCK, M.S., Professor of Genetics.

***GORDON H. TRUE**, B.S., Professor of Animal Husbandry, Davis.

JAMES T. BARRETT, Ph.D., Professor of Plant Pathology, Acting Director
of the Citrus Experiment Station, and Acting Dean of the Graduate
School of Tropical Agriculture, Riverside.

†**FRITZ W. WOLL**, Ph.D., Professor of Animal Nutrition, Davis.

WALTER P. KELLEY, Ph.D., Professor of Agricultural Chemistry in the
Citrus Experiment Station and Graduate School of Tropical Agri-
culture, Riverside.

***DAVID T. MASON**, M.F., Professor of Forestry.

* Absent on leave, 1920-21; † from July 1 to October 31, 1920;

* in residence second half-year only, 1920-21.

- HENRY J. QUAYLE, M.S., Professor of Entomology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- ELWOOD MEAD, D.Eng., Professor of Rural Institutions.
- HOWARD S. REED, Ph.D., Professor of Plant Physiology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- FRANK ADAMS, M.A., Professor of Irrigation Investigations.
- CHESTER L. ROADHOUSE, D.V.M., Professor of Dairy Industry, Davis.
- LEON D. BATCHELOR, Ph.D., Professor of Orchard Management in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- HOWARD S. FAWCETT, Ph.D., Professor of Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- JOHN C. WHITTEN, Ph.D., Professor of Pomology.
- WALTER L. HOWARD, Ph.D., Professor of Pomology, Mountain View.
- RICHARD L. ADAMS, M.S., Professor of Farm Management.
- WILLIAM T. HORNE, B.S., Associate Professor of Plant Pathology.
- ERWIN J. LEA, M.S., Associate Professor of Nutrition.
- WILLIAM B. HERMS, M.A., Associate Professor of Parasitology.
- JOHN E. DOUGHERTY, B.S., Associate Professor of Poultry Husbandry, Davis.
- GEORGE H. HART, M.D., D.V.M., Associate Professor of Veterinary Science.
- PATRICK B. KENNEDY, Ph.D., Associate Professor of Agronomy.
- SAMUEL H. BECKETT, B.S., Associate Professor of Irrigation Practice, Davis.
- FREDERICK L. GRIFFIN, M.S., Associate Professor of Agricultural Education.
- JACOB TRAUM, D.V.M., Associate Professor of Veterinary Science.
- JAMES W. NELSON, B.S., Associate Professor of Agricultural Extension.
- DENNIS R. HOAGLAND, M.S., Associate Professor of Agricultural Chemistry.
- T. FRANCIS HUNT, B.S., Associate Professor of Agricultural Extension.
- CHESTER W. RUBEL, B.S.A., Associate Professor of Agricultural Extension.
- DONALD BRUCE, M.F., Associate Professor of Forestry.
- FRED M. HAYES, D.V.M., Associate Professor of Veterinary Science, Davis.
- WILLIAM R. CAMP, Ph.D., Associate Professor of Rural Institutions.
- ROBERT F. MILLER, B.S., Associate Professor of Animal Husbandry, Davis.
- BEN A. MADSON, B.S.A., Assistant Professor of Agronomy.
- WILLIAM V. CRUESS, B.S., Assistant Professor of Fruit Products.
- O. J. KERN, Assistant Professor of Agricultural Education.
- HARRIET G. EDDY, A.B., Assistant Professor of Agricultural Extension.
- LEROY B. SMITH, B.S., Assistant Professor of Agricultural Extension.
- ROLAND S. VAILE, A.B., Assistant Professor of Orchard Management in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.

- WOODBIDGE METCALF, M.S., Assistant Professor of Forestry.
ELIZABETH H. SMITH, M.S., Assistant Professor of Plant Pathology.
EDWIN C. VAN DYKE, M.D., Assistant Professor of Entomology.
WILLIAM F. GERICKE, M.S., Assistant Professor of Soil Chemistry.
ALFRED SMITH, M.A., Assistant Professor of Soil Technology, Davis.
ROY E. CLAUSEN, Ph.D., Assistant Professor of Genetics.
EDWARD O. ESSIG, M.S., Assistant Professor of Entomology.
VIRGIL C. BRYANT, M.S., Assistant Professor of Agricultural Extension.
EDWIN C. VOORHIES, B.S., Assistant Professor of Animal Husbandry and Assistant to the Dean.
GEORGE W. HENDRY, B.S., Assistant Professor of Agronomy, Davis.
ARTHUR H. HENDRICKSON, B.S., Assistant Professor of Pomology.
WARREN P. TUFTS, M.S., Assistant Professor of Pomology, Davis.
PAUL L. HIBBARD, B.S., Assistant Professor of Agricultural Chemistry.
WILLIAM W. MACKIE, M.S., Assistant Professor of Agronomy.
THOMAS TAVERNETTI, B.S., Assistant Professor of Farm Practice and Assistant to the Dean, University Farm School, Davis.
WALTER W. WEIR, Assistant Professor of Soil Technology.
FRANK J. VEIHMEYER, C.E., Assistant Professor of Irrigation Investigations.
FRIEDRICH C. H. FLOSSFEDER, Assistant Professor of Viticulture and Superintendent of Grounds at University Farm, Davis.
EARLE L. OVERHOLSER, M.A., Assistant Professor of Pomology.
STANLEY B. FREEBORN, B.S., Assistant Professor of Entomology.
CLIFFORD F. ELWOOD, B.S., Assistant Professor of Agricultural Extension.
WYLIE E. LLOYD, B.S., Assistant Professor of Poultry Husbandry, Davis.
LEONARD J. FLETCHER, B.S., Assistant Professor of Agricultural Engineering, Davis.
SAMUEL H. DADISMAN, M.S., Assistant Professor of Agricultural Education.
EMANUEL FRITZ, B.S., Assistant Professor of Forestry.
H. J. BAADE, B.S., Assistant Professor of Agricultural Extension.
ROY M. HAGEN, B.S., Assistant Professor of Agricultural Extension.
BURLE J. JONES, B.S., Assistant Professor of Agricultural Extension.
MARCUS A. W. LEE, B.S., Assistant Professor of Agricultural Extension.
CHARLES S. MYSZKA, M.S., Assistant Professor of Agricultural Extension.
PARKER TALBOT, B.S., Assistant Professor of Agricultural Extension.
H. A. WEINLAND, B.S., Assistant Professor of Agricultural Extension.
C. M. CONNER, B.S., Assistant Professor of Agricultural Extension.
J. F. WILSON, B.S., Assistant Professor of Animal Husbandry, Davis.
A. R. C. HAAS, Ph.D., Assistant Professor of Plant Physiology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
ARTHUR H. HOFFMAN, E.E., Assistant Professor of Agricultural Engineering, Davis.

- ELBERT T. BARTHOLOMEW, Assistant Professor of Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- FRANK W. ALLEN, M.S., Assistant Professor of Pomology, Davis.
- JOHN P. BENSON, B.S., Assistant Professor of Agricultural Extension.
- MAY SECREST, B.S., Assistant Professor of Agricultural Extension.
- GROVER D. TURNBOW, B.S.A., Assistant Professor of Dairy Industry, Davis.
- W. R. RALSTON, B.S., Specialist in Agricultural Extension.
- ROBERT W. HODGSON, M.S., Specialist in Agricultural Extension.
- JOSEPH F. GRASS, B.S., Specialist in Agricultural Extension.
- A. A. JUNGERMANN, B.S., Specialist in Agricultural Extension.
- THOMAS C. MAYHEW, B.S., Specialist in Agricultural Extension.
- H. E. WAHLBERG, B.S., Specialist in Agricultural Extension.
- H. L. WASHBURN, B.S., Specialist in Agricultural Extension.
- GEORGE A. COLEMAN, M.A., Instructor in Entomology.
- HUBERT L. BELTON, Teacher at the University Farm, Davis.
- ROSS C. INGRIM, Teacher at the University Farm, Davis.
- DANIEL H. CAREY, B.S., Teacher at the University Farm, Davis.
- HENRY H. SEVERIN, Ph.D., Instructor in Entomology.
- J. RAYMOND BEACH, D.V.M., Instructor in Veterinary Science, Davis.
- ELMER R. DE ONG, B.S., Instructor in Entomology.
- GUY L. PHILP, B.S., Instructor in Pomology, Davis.
- ARTHUR W. CHRISTIE, M.S., Instructor in Fruit Products.
- JULIUS L. COLLINS, B.S., Instructor in Genetics.
- J. C. MARTIN, B.S., Instructor in Agricultural Chemistry.
- C. L. FLINT, B.S., Instructor in Landscape Gardening and Floriculture.
- H. M. BUTTERFIELD, M.S., Correspondence Teacher in Agricultural Education.
- W. H. DORE, B.S., Instructor in Agricultural Chemistry.
- GEORGE A. LINHART, Ph.D., Research Associate in Soil Chemistry and Bacteriology.
- FRANCIS E. NEER, B.S., Instructor in Pomology, Davis.
- HAROLD A. WADSWORTH, B.S., Instructor in Irrigation Investigations, Davis.
- WALTER S. WILKINSON, B.S., Instructor in Agronomy, Davis.
- G. H. WILSON, B.S., Instructor in Animal Husbandry, Davis.
- JAMES P. BENNETT, Ph.D., Instructor in Pomology.
- ALVA R. DAVIS, Ph.D., Instructor in Soil Chemistry and Bacteriology.
- CLAYTON O. SMITH, M.S., Research Associate in Plant Pathology in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- HOWARD B. FROST, Ph.D., Research Associate in Plant Breeding in the Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
- KATHERINE JONES, B.S., Associate in Landscape Gardening and Floriculture.

- J. C. MARQUARDT, B.S.A., Associate in Dairy Industry, Davis.
 E. E. THOMAS, Research Associate in Agricultural Chemistry in Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
 RALPH BENTON, M.S., Correspondence Teacher in Agricultural Education.
 DANIEL T. BATCHELDER, B.S., Associate in Animal Husbandry, Davis.
 F. F. JANNEY, B.S., Farm Superintendent and Teacher at University Farm.
 BLYTHE F. MONBOE, B.S., Assistant in Soil Technology.
 LEON BONNET, I.A., Assistant in Viticulture.
 MELVILLE E. WANK, B.S., Assistant in Soil Technology.
 JOHN C. JOHNSTON, B.S., Assistant in Citriculture.
 STANLEY W. COSBY, B.S., Assistant in Soil Technology.
 F. F. HALMA, Assistant in Plant Physiology in Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
 HUGH KNIGHT, Assistant in Entomology in Citrus Experiment Station and Graduate School of Tropical Agriculture, Riverside.
 HAROLD GOSS, B.S., Assistant in Nutrition.

Upper Division Courses.—All upper division courses announced by this department presuppose at least junior standing in the College of Agriculture. Students in other colleges may elect such courses in the department of agriculture as they are qualified to pursue.

Honors.—Students who become candidates for the bachelor's degree may be recommended for honors on the basis of the quality of the work done in the regular curriculum of the senior year or its equivalent, or on the basis of a thesis showing ability to do original work.

Graduate Work.—Students who intend to become candidates for higher degrees in the College of Agriculture will be required to give evidence of the completion of an amount of work equivalent, in its value, to that required by this college for its degree of Bachelor of Science. The student is referred to the Announcement of the Graduate Division for details of work in the sub-departments or divisions of this department.

AGRICULTURAL CHEMISTRY

A deposit of \$10 is required in courses 2, 101, 102, 103; \$5 of this is retained and the balance after deducting for breakage or loss may be returned.

1. General Agricultural Chemistry. (3) I. Tu Th S, 9. BURD
 Prerequisite: Chemistry 1A-1B.
 The relation of chemistry to agriculture.
2. Agricultural Laboratory. (2) I. BURD, MARTIN, —
 Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4.
 Prerequisite: Chemistry 1A-1B. Students in the College of Agriculture will ordinarily take courses 1 and 2 concurrently.
 Experiments with and laboratory tests of agricultural materials.

101. **Agricultural Biochemistry.** (3) I. HOAGLAND, DORE
 Lectures to be arranged. Laboratory, Tu Th, 1-4. Prerequisite:
 Chemistry 5 or 6A-6B and 8 (6A-6B recommended; may be taken con-
 currently).
 Organic constituents of plants; fats and lipoids, proteins and
 enzymes, carbohydrates, with special attention to cellulose bodies;
 principles of plant metabolism from chemical point of view.
102. **Agricultural Analysis.** (3) II. HIBBARD
 Lectures to be arranged. Laboratory, Tu Th, 2-5. Prerequisite:
 Chemistry 5 or 6A-6B; Agricultural Chemistry 1A-1B advised.
 A technical course in the examination and evaluation of waters,
 fertilizers and insecticides; with special attention to interpretation
 of results and their application.
103. **Laboratory Study of Selected Topics.** Either half-year. HOAGLAND
 Hours and credits to be arranged.
201. **Research and Seminar in Agricultural Chemistry.** The STAFF

AGRICULTURAL EDUCATION

Senior standing is prerequisite to courses 106, 108, 110, 112.

100. **Elements of Agricultural Nature Study and Gardening.** KERN
 (3) II. Lectures, M Tu, 1; laboratory, W, 1-4.
 A course for prospective supervisors of gardening and nature study.
 Aims, methods and materials used in agricultural instruction in the
 elementary school, with a suggested course of study. Outlines and
 discussions in the home garden and vegetable growing projects. The
 school garden as a laboratory for teaching certain processes. Garden
 practice and lesson plans. Illustrated lectures and readings.
106. **Methods in Teaching Vocational Agriculture.** (3) II. GRIFFIN, DADISMAN
 The technique of classroom teaching, laboratory instruction and
 project supervision. The individual as well as the group method of
 instruction and supervision are considered.
108. **Methods in Teaching the Supplemental Vocational Subjects.** (3 or
 more) II. GRIFFIN, DADISMAN
 The purpose, materials and methods to be utilized in teaching the
 subjects supplemental to the applied work in secondary vocational
 courses in agriculture as outlined in the California plan for vocational
 education.
110. **Organization, Supervision and Administration of Vocational Agri-
 culture.** (2) II. GRIFFIN
 The problems relating to the organization, administration and
 supervision of vocational agriculture most frequently encountered by
 state supervisors, high school principals and vocational teachers form
 the basis of this course. Special consideration is given to the Cali-
 fornia plan of vocational education.

112. Principles and Methods of Agricultural Extension. (2 or 3) II.

Griffin and others

Agricultural Extension agencies and their relation to rural community development. The origin and development of the County Farm Bureau; its purpose, organization and methods. The County Farm Advisors, Home Demonstration Agents and Agricultural Club leaders; their functions and methods. Farmers' Institutes, Extension Schools and other Extension agencies; their function and methods. Visual methods of instruction; principles and methods involved in the making and use of lantern slides, charts and moving pictures. Lectures, informal discussions, reports on assigned reading and laboratory work. The laboratory work, requiring one double period weekly, is optional.

115. Selected Topics. Either half-year.

Griffin, Kern

This course offers senior students in any department of the University an opportunity to study systematically some problems of individual interest that pertain to agricultural education and country life.

202. Special Studies in Agricultural Education.

Griffin

Either half-year.

299. Thesis for the Master's Degree.

300. Practice of Teaching Vocational Agriculture. (4).

Griffin, Dadisman

A six weeks' practice course in selected California high schools. The observation of classroom teaching and project supervision; supervised practice teaching in the classroom, laboratory and field. By special arrangement with the department of education in the University this course will be accepted in satisfaction of the requirement in practice teaching for the high school teacher's recommendation.

(Given at Davis)

107A-107B. The Farm Project. (No credit) Yr.

Dadisman

Students whose major is agricultural education may undertake one or more projects in connection with their other class work at the University Farm. The work is on a commercially productive basis and is carried on under expert supervision. All of the work necessary for completing a project can usually be done outside of the usual class hours. To be taken during the junior year.

AGRONOMY

1. Agronomy. (3) I. M W F, 9.

Gilmore

The fundamental factors of field crop production. Climate and crop geography, soil and moisture relationships, fertility and its maintenance, and the leading field crops with the principles of their culture and management, will be the principal topics presented. Lectures, recitations and demonstrations.

99. Practice. (Credit to be arranged.)

Gilmore

Methods of crop production and farm management, with practical work. Trips into the country. Also special assignments. Six weeks, daily except Sunday, during the period of the Intersession.

106. Cereals. (3) I. Lectures, W F, 9; laboratory, W, 1-4. MADSON
Prerequisite: Soil Technology 1.
A study of the cereals of America, their morphology, culture, methods of improvement and uses. Lectures, assigned readings and laboratory practice.
108. Agrostology. (3) II. Lect. W F, 9; lab. Th, 2-5. KENNEDY
Prerequisite: Botany 5.
Morphology and taxonomy of grasses in their relation to agriculture.
120. Miscellaneous Crops. (3) II. M W F, 10. MADSON
Prerequisites: Soil Technology 1 and Botany 5.
A study of miscellaneous field crops including tubers, beans, sugar crop, fiber crops, etc., their morphology, culture, methods of improvement and uses. Lectures, assigned readings and problems.
125. Market Grades of Grain. (3) II. M W, 9; W, 1-4. MADSON
Prerequisite: Agronomy 106.
Lecture and laboratory exercises on the market classes and grades of grain, and the laws and regulations governing the same.
130. Conference. (1) I. W, 2-4. GILMORE and STAFF
Presentation of reports and papers with discussions on subjects assigned. Open to seniors only.
- 131A-131B. Special Topics. (1-2) Yr. GILMORE and STAFF
Study of literature with laboratory or field investigations on problems assigned.
200. Advanced Agronomy. Either half-year. GILMORE and STAFF
Original investigation of problems in crop production.
299. Thesis for the Master's Degree. GILMORE and STAFF
Subject, distribution of work and hours to be arranged.

(Given at Davis)

106. Cereals. (3) I. Lect. M, 11, Tu, 8; lab. M, 2-5. MADSON
Prerequisite: Soil Technology 1.
A study of the cereals of America, their morphology, culture methods of improvement and uses. Lectures, assigned readings and laboratory practice.
107. Forage Crops. (3) II. Lect. M, 11, Tu, 8; lab. M, 2-5. KENNEDY
Prerequisite: Botany 5.
The plants which produce feed for live stock; their characteristics, adaptations and culture methods; the principles underlying the maintenance of meadows, pastures and ranges.

ANIMAL HUSBANDRY

(Given at Berkeley)

- *1. The Livestock Industry. (3) I. M W F, 8. VOORHIES
 Statistical survey of the animal industry of this state and country. Relation of livestock to agriculture. Pure-bred industry of the Pacific Coast, and a general discussion of breeds of livestock and their management.

(Given at Davis)

99. Practice in Animal Husbandry. (6). VOORHIES
 100. Farm Animals. (3) I. TRUE
 A general course more advanced than course 1, with special emphasis on production.
 101. Management. (4) II. MILLER, WILSON
 The general care, feeding and management of hogs, sheep and horses. Two lectures and two laboratory or practice periods.
 102. Feeding Farm Animals. (3) I. MILLER
 A study of feeds generally used in livestock production. Underlying principles of feeding, balancing of rations, etc.
 105. Judging of Dairy Cattle and Hogs. (4) II. —
 A study of the origin, history and development of the breeds. Two lectures and two practice periods.
 106. Judging of Beef Cattle, Horses, Sheep. (4) I. MILLER
 A study of the origin, history and development of the breeds. Lecture and practice periods.
 107. Breeding Farm Animals. (3) II. WILSON
 A study of the fundamental principles underlying animal breeding, with special emphasis on the more practical phases of the work.
 108. Milk Production. (3) II. DOUGHERTY
 Feeding and management of the dairy herd, with special emphasis on the economic problems connected with milk production.
 109. Pro-seminar. (1) I. MILLER
 110. Pro-seminar. (1) II. MILLER, WOLL

CITRICULTURE

99. Traveling Practice Course. (6). COIT, JOHNSTON
 A six weeks' practice course beginning at the end of the second half-year.
 101. Citrus Fruits. (4) II. WHITTEN, JOHNSTON
 Lectures, Tu Th 8, 11; laboratory, Tu, 2-5.
 Propagation, location and management of orchards, orchard heating, harvesting, packing, storing, marketing and pest control.

* Not to be given in 1920-21.

14 *Agriculture—Citriculture; Dairy Industry*

102. Semi-tropical Fruits. (4) I. WHITTEN, JOHNSTON
Lectures, Tu Th S, 11; laboratory, Tu, 2-5.
Semi-tropical fruits grown in California, including the date, fig, olive, avocado, pomegranate, loquat, persimmon, guava, feijoa, mango and others.
- *103. Pro-seminar. (2) Either half-year. M, 3-5. COIT
Assigned special topics requiring extended research into pomological literature; reports and discussions.
- *106. Applied Phases of Plant Physiology. (3) II. JOHNSTON
Lecture, M, 2; laboratory, W F, 2-5.
- 201A-201B. Research. Yr. COIT
299. Thesis for the Master's Degree. COIT

DAIRY INDUSTRY

99. Practice in Dairying.

Dairy manufactures, market milk and dairy production may be taken at the University Farm in the Creamery, or at the dairy barns, or in any creamery, milk plant or dairy farm approved by the division. May be taken after the sophomore or junior years. Credit given only when taken at the University Farm.

(Given at Davis)

Course 102 is prerequisite to courses 104, 128 and 130.

102. Principles of Dairying. (3) I. ROADHOUSE
Laboratory deposit \$3.
The secretion of milk; nature, composition and value of milk and dairy products; principles and application of the Babcock tests; principles in the manufacture of dairy products; state dairy laws and a study of California dairy conditions.
104. Cheese-making. (3) II. MARQUARDT
Lecture, M Th, 10; laboratory, Tu, 1-5.
Instruction and practice in the manufacture of Cheddar, California (Granular), Jack, Cottage and Neufchatel cheeses. Organization and management of cheese factories.
128. Butter-making. (3) II. TURNBOW
Lectures, M, 1, Tu, 9; laboratory, F, 1-4.
The principles and practice of factory butter-making including cure of cream, cream grading and ripening, pasturizing, starter making, churning, moisture and salt control, packing and storing of butter, creamery organization, equipment and management.
130. City Milk Supply and Dairy Inspection. (3) II. ROADHOUSE
Lectures, W F, 10; laboratory, Th, 1-4.
Conditions affecting quality of milk for direct consumption; requisites for producing different grades of milk; tests for quality, adulteration, etc.; pasteurizing, standardizing, cooling and bottling milk for distribution; preparation of culture milk and the inspection and scoring of dairies, milk plants, milk and cream.

131. **Testing Dairy Products.** (2) II. W, 1-5. MARQUARDT
Laboratory deposit \$3.
Technical test to determine composition of milk, cream, butter, cheese, ice cream, condensed and evaporated milk, casein and such other tests as are used in commercial manufacturing plants.
134. **Ice Cream, Ices and Milk Specialties.** (3) II.
Lectures, Tu Th, 9; laboratory, Th, 1-4. TURNBOW, MARQUARDT
Care, preparation, and mixing of the ingredients used in the manufacture of ice cream and ices; freezing, hardening and storing ice cream; the utilization of skim milk, buttermilk and whey; the principles involved in the manufacture of condensed milk, powdered milk, milk sugar, casein and albumin.
140. **Seminar in Dairy Industry.** (1) II. The STAFF
Biweekly reports and papers with discussion of subjects assigned.

ENTOMOLOGY AND PARASITOLOGY

1. **General Entomology.** (3) I. VAN DYKE
Lectures, Tu Th, 10; laboratory: Sec. 1, Tu, 1-3; Sec. 2, Th, 1-3.
Elements of insect structure, physiology and classification.
6. **Parasites.** (3) I. FREEBORN
Lectures, Tu Th, 10; section meeting by arrangement.
Origin and development of parasitism, classification and elementary relation of animal parasites to diseases of man and domestic animals.
27. **Ecology.** (3) II. M W F, 10. HERMS
Fundamental principles of ecology; animal communities; insect behavior.
99. **Practice in Entomology and Parasitology.** (6). The STAFF
Summer field course.
- 103A-103B. **Special Problems.** (2-4) Either half-year. The STAFF
Open to upper division students only.
105. **Apiculture.** (3) II. COLEMAN
Biology and handling of bees.
112. **Insect Taxonomy.** (3) Either half-year. VAN DYKE
Prerequisite: Entomology 1. May be repeated without duplication of credit.
The classification of insects.
114. **Forest Entomology.** (3) I. Lectures and laboratory. VAN DYKE
Insects affecting forest and shade trees.
116. **Veterinary Parasitology.** (4) I. HERMS, FREEBORN
Lectures, M W, 3; laboratory, M W, 1-3.
Prerequisites: Zoology 1A and Bacteriology 1.
Animal parasites affecting domesticated animals.

16 *Agriculture—Parasitology; Farm Management*

124. Horticultural Entomology (4) I. ESSIG
Lectures, M W, 4; laboratory, M W, 1-4.
Life histories, habits and control of insects attacking deciduous, citrus and tropical fruit trees, nuts, and vines in California.
- *125. Field and Truck Crop Insects. (4) II. SEVERIN
Life histories, habits and control of insects affecting field and truck crops. Lectures and laboratory.
126. Medical Parasitology. (5) II. HERMS, FREEBORN
Lectures, M W Th, 3; laboratory, M W, 1-3.
Prerequisites: Zoology 1A and Bacteriology 1.
Animal parasites in relation to human disease.
- 129A-129B. Undergraduate Thesis Course. (2-5). The STAFF
Either or both half-years.
Open only to senior students electing entomology or parasitology as a major.
130. Rural Sanitation. (3) I. M W F, 10. HERMS
Disposal of farm sewage; prevention of filth diseases; sanitation of farm water supplies; control of mosquitoes and malaria; fly and rodent control; camp sanitation, etc.
- 200A-200B. Seminar in Entomology and Parasitology. (1-1).
Either or both half-years.
Required of all students enrolled in courses 129A-129B, 201A-201B and 299.
- 201A-201B. Research in Entomology and Parasitology. The STAFF
299. Thesis for the Master's Degree.

FARM MANAGEMENT

118. Farm Management. (3) I. Lect. W F, 10; lab. F, 1-4. ADAMS
Prerequisite: senior standing in the College of Agriculture; open by special permission to juniors. Recommended to juniors who are to take Farm Management 119.
The business aspects of land management. The relations of capital, choice of land, farm equipment, farm layout, cropping systems, labor, farm accounts and marketing to agriculture.
119. Farm Management. (2) I. Lect. and lab. M, 1-5. ADAMS
Prerequisite: senior standing in the College of Agriculture; to be preceded or accompanied by Farm Management 118.
Advanced lectures, laboratory and special projects supplementing Farm Management 118. Application of farm management principles to specific problems.
199. Undergraduate Thesis. ADAMS
Original investigation of farm management subjects.
200. Graduate Work in Farm Management. Yr. ADAMS
Individual research. Prerequisite: graduate standing in the College of Agriculture; training equivalent to Farm Management 118.

* Not to be given in 1921.

FARM MECHANICS*(Given at Davis)*

2. **Farm Building Construction.** (2). Either half-year. **BELTON**
The use and care of tools, elements of carpentry, concrete construction and estimating of cost, together with the actual construction of various farm buildings, and appliances.
3. **Forge Practice.** (2). Either half-year. **INGRIM**
The principles and practice of general blacksmithing as applied to farm machinery.
101. **Farm Machinery and Farm Motors.** (4) II. **FLETCHER**
Economics of farm machinery; materials of construction. The development, construction, functions, adjustment, operation and repair of farm machinery. The production and transmission of power. Principles of draft. The study of gasoline and oil engines; electric power; tractors. Laboratory work in the study, operation and adjustment of the machines discussed in the classroom.
103. **Gas Engines and Tractors.** (4) I. **FLETCHER**
Two lectures, two laboratory periods weekly.
A study of the construction, operation and repair of gas engines and tractors. The laboratory work consists of the examination and operation of engines and tractors; trouble finding, repair work and field operating.
104. **Farm Mechanics.** (3) II. **FLETCHER**
Two lectures, one laboratory period weekly.
The mechanics of machines, transmission of power, soldering, babbitting, pipe fitting and use of tools used in machinery repair. Study of centrifugal pumps, farm water supply systems and independent electric lighting plants.
105. **Farm Structures.** (3) II. **FLETCHER**
Two lectures, one laboratory period weekly.
Location of buildings on the farmstead, essentials of farm buildings together with details of equipment and construction. Practice in designing and constructing.

FORESTRY

- *1. **Elementary Forestry Principles.** (3) II. **MULFORD**
Lectures, M W F, 9; and one weekly quiz section by arrangement.
The relation of forestry to the every-day life of a nation; the influence of forests upon water supply, climate, soil and public health; the products of the forest. The life story of the tree and the forest; general principles of forestry practice, protection of the forest from fire and other enemies; present organization of forestry work in the United States and Europe. Several lectures on fish and game will be given by Dr. H. C. Bryant of the California Fish and Game Commission.

* Not to be given, 1920-1921.

- *2. Elementary Forestry Practice. (3) I. METCALF
Lectures, M W, 10; laboratory, Th, 1-4.

A course for the land owner, ranch manager and others interested in practical forestry. Simple methods of planting, tending, measuring and utilizing trees. How to know important native and introduced trees; tree seed and how seedlings are grown in nurseries; the recognition and correct use of important commercial woods; prevention of decay in wood; measurement and valuation of standing timber.

10. Forest Mensuration. (3) II. BRUCE
Lectures, Tu Th, 10; laboratory, F, 2-5.

The measurement of saw logs and other manufactured products, of standing timber, and of the growth of trees and stands.

20. Forest Protection. (3) II. Lect. Tu Th, 8; lab. Th, 1-4. MASON
The protection of forests from fire, insects, fungi, trespass, etc.

99. Practice in Forestry. (6). BRUCE in charge, MASON, METCALF, FRITZ
Thirteen weeks, summer camp. To be held at Meadow Valley, near Quincy, in the Plumas National Forest. Prerequisite: Civil Engineering 1A-1B and Forestry 10. Practice in scaling and estimating timber and the study of its growth; timber survey of a large tract; detailed study of logging and milling operations; the location of logging railroads; grazing; collection of data for a working plan.

Woodsmanship.

While in camp for course 99 instruction in woodsmanship will be given. Students who make forestry their major subject will be required to become reasonably proficient in woodsmanship. No credit.

104. Silviculture: Forest Ecology and Natural Reproduction. (5) I. METCALF
Lectures, Tu Th F S, 8; field work, S, 9-12.

The influence of site on the forest and of the forest on site; the behavior of trees as members of a forest community; forest description; methods of reproducing the forests without planting or sowing; the care of the crop during its growth; timber sale marking.

106. Silviculture: Forestation. (2) I. METCALF
Lecture, M, 8; laboratory, Tu, 1-4.

Tree seeds; direct seeding; the forest nursery; forest planting; woodlot and windbreak planting; fixation of sand dunes.

108. Timber Trees and Forest Regions. (3) I. METCALF
Lectures, W F, 9; laboratory, M, 1-5.

Brief survey of the forest regions of the world; detailed account of the forest regions of the United States and Canada; the distribution, importance and silvical characteristics of the leading timber trees of the United States and Canada, and their identification.

112. Forest Utilization. (3) I. Lect. Tu Th, 10; lab. W, 1-4. FRITZ

The manufacture, seasoning, grading and care of rough and finished lumber; the principal industrial uses of lumber; minor wood-using industries; utilization of products other than wood, such as forage, fish and game.

114. Wood Technology. (3) I. Lect. M W, 10; lab. F, 1-4. **FRITZ**
Identification of economic woods; physical, chemical and mechanical properties of wood; chemical utilization of waste; technical forest products; wood preservation; paper pulp; distillation of wood.
115. Logging. (3) II. Lectures, Tu Th, 9; laboratory, M, 1-4. **BRUCE**
The manufacture and transportation of saw logs from stump to mill.
118. Forest Engineering. (3) II. **BRUCE**
Lectures, M W, 11; laboratory, Tu, 1-4.
The construction and maintenance of forest trails, roads, bridges and telephone lines.
120. Forest Finance and Organization. (3) II. **MASON**
Lectures, M W, 8; conference, W, 1-4.
Forest finance, including compound interest in forest calculations; appraisal of timber and forest soil; damages; taxation; timber bonds; timber insurance; regulation of timber cut; working plans.
122. Forest Administration and Policy. (3) II. **MASON**
Lectures, Tu Th, 11; conference, S, 9-12.
Administration of the national forests and of state and private forests; forest policy; historical development of forestry.
124. The Lumber Industry. (3) II. Lectures, M W F, 10. **MASON**
Economics of the lumber industry; history and present status; personnel; finances; marketing; associations; wholesale and retail lumber business.
128. Conference. (1-3). Either half-year. **The STAFF**
Round table discussions of forestry problems; individual topics of study will be assigned. May be repeated without duplication of credit. Open only to students with a major in Forestry.
- 202A-202B. Research. Yr. **The STAFF**
Individual advanced study and research in silviculture, forest management, forest engineering, forest utilization; wood technology, forest protection, or forest policy.

GENETICS

1. Principles of Breeding Plants and Animals. (3) II. **BABCOCK, CLAUSEN, COLLINS**
Lectures, M W, 9; recitations: Secs. 1, 2, Tu, 9; Secs. 3, 4, W, 8; Secs. 5, 6, F, 9. Prerequisite: Botany 3 and Zoology 1A.
Study of variation and heredity with reference to plant and animal improvement.
120. Special Topics. (3-5). **BABCOCK, CLAUSEN, COLLINS**
Either half-year.
Individual study, the results to be embodied in a report or thesis. Laboratory and practice work, with reading. Weekly meetings with reports. Lectures and laboratory exercises will be provided for students desiring formal instruction. With instructor's permission may be repeated without duplication of credit.
200. Research. **BABCOCK, CLAUSEN, COLLINS**
299. Thesis for the Master's Degree.

20 Agriculture—Irrigation Practice; Landscape Gardening

IRRIGATION PRACTICE

(Given at Davis)

120. Irrigation Practice. (3) II. **BECKETT**
Lecture, F, 11; field work: Sec. 1, Tu W, 2-5; Sec. 2, Th F, 8-11.
Prerequisite: Irrigation 113, Civil Engineering 1A or 1E.
121. Special Problems in Irrigation Practice. (3) II. **BECKETT**
Open to students who are taking or who have taken course 120.
The preparation of land and application of water to various crops;
the rates of application, rate of flow of water over the land, and
distribution of moisture in the soil following irrigation.

LANDSCAPE GARDENING AND FLORICULTURE

- 99A. Practice in Landscape Gardening. (6). **GREGG, JONES, FLINT**
Summer course.
A general survey of the art of landscape gardening. Required of
all students with a major in landscape gardening at the end of the
junior year.
- 99B. Practice in Floriculture. (6). Summer course. **FLINT**
A general survey of the field of commercial floriculture; may be
modified to meet the needs of individual students. Required of all
students with a major in floriculture at the end of the junior year.
101. The Ornamentation of Home Grounds. (2) I. M W, 10. **FLINT**
The principles of design as applied to home grounds, together with
the correct use of the best plant materials for such areas. Lectures,
assigned readings, and reports.
- 102A-102B. Commercial Floriculture. (4-4) Yr. **FLINT**
Lectures, M W F, 1; laboratory, Tu, 2-5. Fee, \$2.50.
The growing of the principal florists' crops on a commercial scale,
both under glass and in the field. Lectures, reports, greenhouse and
field work.
103. The Theory and Aesthetics of Landscape Design. (4) I. **GREGG**
Lectures, M W F, 9; drafting, W, 2-5.
The differing styles of landscape art and the principles governing
correct design. Open to students whose major is architecture or
engineering.
- 104A-104B. Plant Materials. (2-2) Yr. **JONES**
The form, habit, texture and adaptation of trees, shrubs, vines
and herbaceous plants with reference to their value and use in land-
scape design.
- 104C-104D. Plant Materials. (2-2) Yr. **JONES**
Advanced study of plant adaptation and landscape value.
- 105A-105B. Elementary Landscape Design. (4-4) Yr. **FLINT**
Lecture, M, 1; drafting sections to be arranged.
The simpler problems of design with special reference to small
areas, their reconstruction and improvement, from paced, chain and
plane table surveys, together with reports, estimates and sketches.

- 106A-106B. Advanced Landscape Design. (4-4) Yr. GREGG
The more advanced problems of design and reconstruction from topographic and transit surveys as offered by the larger areas of parks, playgrounds and country estates, with detailed plans, reports and estimates.
107. History and Literature. (2) II. M F, 1. JONES
The history and literature of landscape gardening with special reference to early influences as they govern modern design.
108. Tree Surgery. (3) I. FLINT
Lectures, W, 2; laboratory to be arranged. Fee, \$1.
The most approved methods of caring for ornamental trees; the technical details of planting, pruning and spraying, bolting, chaining and cavity work; shade tree legislation and duties of shade tree commissions and tree wardens.
109. Home Floriculture. (2) II. FLINT
Lectures, Tu Th, 11; laboratory, Tu, 2-5. Fee, \$2.50.
The propagation and culture of the more common annuals, herbaceous perennials and bulbous plants grown in California gardens; the preparation of soils and the planting of flower beds; the use of fertilizers and the preparation and application of spraying materials.
Lectures, assigned reading, garden and greenhouse work.
201. Modern Civic Art. (8) I. GREGG
Advanced problems in design with special reference to city parks, municipal park systems, recreation areas, civic centers and other civic features, as they form an intimate part of the city plan as a whole. Consultation, outside reading, and the preparation of plans, specifications, estimates and reports.
- 202A-202B. City and Town Planning. (8-8) Yr. GREGG
Advanced problems in planning and designing. The economic and aesthetic problems involved in the systematic planning and development of American cities. The progress of all phases of city and town planning in this and European countries is made the basis of lectures and outside reading. Extensive practice projects are outlined and plans and specifications prepared for the development of new cities and towns and the replanning of others for their best economic and aesthetic development.
299. Thesis for Master's Degree. The STAFF

NUTRITION

Laboratory deposit of \$10 required in courses 109, 117, 119, 127, 129, 231; \$5 returnable less deductions for breakage.

2. Pure Food and Drug Laws and their Operation. (2) I. M W, 8. LEA
The history of food legislation; critical discussion of national, state and municipal laws on food inspection and control; the use of preservatives; adulteration and misbranding of foods; human foods and those for cattle and poultry. Lectures and recitations.

99. Summer Course. Practice in Nutrition.

JAFFA

Arrangement for practice course requirements for students whose major is nutrition may be made by consultation with the head of the division.

106. Feeds and Feeding. (3) I.

JAFFA, GOSS

Lectures, Tu Th, 1; laboratory by arrangement.

Prerequisite: inorganic chemistry.

The composition and use of cattle and poultry foods; compounding of rations; practical application of the principles of animal nutrition to the rational feeding of farm animals. Lectures, recitations and laboratory work.

109. Laboratory Course in Dairy Chemistry. (3-4) I.

GOSS

Prerequisite: Chemistry 5.

Quantitative chemical and microscopical methods for examination of milk, butter, other dairy products and commercial milk foods, for the detection of preservatives and adulterants. Lectures and laboratory exercises.

114. Fundamentals of Nutrition. (2) I. Tu Th, 2.

JAFFA

Prerequisite: inorganic chemistry.

Designed to give the general student some knowledge of the nature and functions of food, and the mechanism involved in its digestion and utilization.

116. Foods and Food Products. (2) II. Tu Th, 2.

JAFFA

Prerequisite: inorganic chemistry; organic chemistry recommended.

A detailed study of food materials, their physiological values and economic importance. Discussion of standards and dietaries.

117. Laboratory Course in Food Analysis. (3-4) Either half-year.

GOSS

Prerequisite: Chemistry 5.

Quantitative chemical and microscopical methods for examination and analysis of foods, and methods for detection of adulteration. Nature of the materials studied will depend upon the interest and preference of the student. Opportunities for advanced work may be offered.

119. Advanced Course in Food Chemistry. (3) II.

LEA, GOSS

Laboratory, M W, 1-4; lecture to be arranged.

Prerequisite: Course 117 or Agricultural Chemistry 101.

A critical study of methods for determining the purity and quality of food products with special reference to the requirements of food and drug laws.

120. Pro-seminar in Nutrition. (2) II.

JAFFA

A critical study of the methods of feeding large groups and a discussion of the problems involved in the management of the commissary departments of institutions, industrial and agricultural organizations, camps, etc.

126. Advanced Nutrition. (3) I. —
Prerequisites: Chemistry 1A-1B, 8; Physiology, and Agricultural Chemistry 101 recommended.
The chemistry and physiology of alimentation and a detailed study of the processes of metabolism involved in the nutrition and growth of animals.
127. Laboratory Course in Advanced Nutrition. (3) I. —
Prerequisites: Chemistry 1A-1B, 5, 8; Physiology, and Agricultural Chemistry 101 recommended. Designed to accompany course 126.
A study of digestion and metabolism, with practice in nutrition experiments on animals and man.
129. Problems in Nutrition and Food Chemistry. JAFFA and The STAFF
Either half-year. Thesis work may be included.
230. Seminar in Foods and Nutrition. (2) I. JAFFA
Discussion of recent work in food chemistry and feeding experiments with the interpretation of laboratory results. Nutritional aspects of the processes of manufacturing and preserving foods.
231. Research in Food Chemistry and in Nutrition. JAFFA
232. Seminar in Nutrition and Metabolism. (1) II. —
Discussion of original papers in recent journals as a stimulus to further investigation.
299. Thesis for the Master's Degree.

OLERICULTURE

(Given at Davis)

103. Vegetable Gardening. (3) I. CAREY, JENKINS
One lecture and one laboratory or field period weekly.
General principles of vegetable gardening; detailed directions for the production and marketing of vegetables under California conditions.
104. Vegetable Crops. (3) II. CAREY, JENKINS
Two lectures and one laboratory or field period.
The production and preparation for market of special vegetables and vegetable seed crops.

PLANT PATHOLOGY

99. Practice Course. HOENE
Students with a major in plant pathology should register for this course not later than the middle of the junior year or after completing course 120. The course may be given either during the college year or in vacation, according to the material available and the circumstances of the individual student. The work will consist mainly in trips to various parts of California, where the student may make field studies upon the nature, economic importance and practical control of representative plant diseases. Not required of students with a major in plant pathology who have completed Agronomy 99, Citriculture 99, Pomology 99 or Soil Technology 99.

120. Diseases Affecting Cultivated Plants in California. (4) I.**HORNE, E. H. SMITH**

Lect. Tu Th, 8; laboratory: Sec. 1, Tu Th, 9-12; Sec. 2, Tu Th, 1-4.

Prerequisite: junior standing in the College of Agriculture or a reasonable equivalent.

Lectures and laboratory studies on diseases of economic plants. A beginning course required of juniors whose major is plant pathology, but intended also for other students who desire a general knowledge of the subject.

121. Special Undergraduate Study. II.**HORNE**

Prerequisite: course 120.

Laboratory work in continuation of course 120.

122A-122B. Advanced Course. (4-4) Yr.**HORNE, E. H. SMITH**

Lectures, M W, 8; laboratory, M W, 9-12.

Prerequisite: course 120 and Botany 105A.

The principles of plant pathology, nature of disease and the chief disease-inciting influences; disease-producing organisms, their development, activities and relation to host plants by means of microscopic, cultural, histological and infection methods. Systematic review of important diseases. Lectures, laboratory and collateral reading. Required of seniors whose major is plant pathology.

125A-125B. Special Topics. (2). Either half-year.**The STAFF**

Laboratory or field study of an assigned topic, with preparation of a thesis.

126A-126B. Pro-seminar. (1-1) Yr.**The STAFF**

Papers and discussions by members of the class on topics of interest in connection with the various courses. Required of all students whose major is plant pathology; open to other students enrolled in 121, 122A-122B, or 230.

230. Graduate Research.**The STAFF**

Original investigations of special problems.

299. Thesis for the Master's Degree.**POMOLOGY****1. General Horticulture. (3) II. M W F, 9.****WHITTEN**

A general introductory course in horticulture as a part of a farm system; culture and arrangement of fruits, vegetables and ornamental plants.

101. Principles and Practices of Fruit Growing. (3) I.**M W F, 10.****OVERHOLSER, BIOLETTI**

A study of the general principles and practices of deciduous fruit growing, propagation, planting and culture of orchard trees, small fruits and grapes; harvesting, storing and marketing fruits.

105A-105B. Pro-seminar. (2-2) Yr. M, 3-5. WHITTEN and The STAFF

Required of graduate students, but open to seniors specializing in pomology.

106. Systematic Pomology. (2) I. Tu Th, 1-4. OVERHOLSER, BIOLETTI

A study of species, groups and varieties of fruits, with emphasis upon their special purposes, requirements and adaptation. The course includes apricots, apples, cherries, grapes, nuts, pears, peaches, plums and small fruits. Considerable practice will be given in judging fruit and the interpretation of score cards. Observations will be made upon the behavior of fruits in cold storage.

107. Nuciculture. (2) II. Tu Th, 10. OVERHOLSER

Nut fruits, including the almond, walnut, pecan, chestnut, filbert and others. Classification, propagation, location and management of orchards, harvesting, marketing and utilization.

120. Physiology and Anatomy of Fruit Plants. (3) II. BENNETT
M W F, 9.

A study of the structure and functions of fruit plants as applied to practices and problems of fruit growing.

121. Advanced Pomology. (3) I. Tu Th S, 10. WHITTEN and The STAFF

A study of the sources of knowledge and opinions as to the principles and practices of pomology; methods and difficulties involved in pomological experimental work. An occasional laboratory or field trip may be arranged as a substitute for one or more lectures.

199. Special Topics and Problems. WHITTEN, OVERHOLSER, BENNETT

201. Research. WHITTEN, OVERHOLSER, BENNETT

299. Thesis for Advanced Degrees.

(Given at Davis)

99. Practice Course. PHILP, ALLEN

Six weeks' summer course beginning about July 1. Eight hours each day except Saturday, when only four hours will be required. Picking, grading, packing, drying and scoring of fruits. Orchard practice with the handling of such crops as apricots, peaches, pears and plums. Special emphasis will be laid on the requirements of the "green," cannery and dried fruit markets. As many visits as possible will be made to neighboring fruit districts in order to study commercial methods in the field. The work in the field will be supplemented by lectures and assigned readings dealing with the handling of California fruits.

101. General Pomology. (4) I. HENDRICKSON, PHILP
M W F, 10; F, 1-5:30. Identical in subject matter with course 101 as given at Berkeley with one additional laboratory period.

103. Orchard Practice. (3) II. W F, 1-5:30. PHILP, SEVIER

A laboratory course designed to give the student actual practice under orchard and field conditions in the various operations of deciduous fruit production; propagation, planting, pruning, spraying, etc.

POULTRY HUSBANDRY

(Given at Davis)

99. Practice in Poultry Husbandry. (6). DOUGHERTY, LLOYD
Practice in feeding and caring for pens of fowls, grinding and mixing feeds, caring for young chicks, running incubators, and all of the work necessary in the management of a poultry plant. Required of all students whose major is poultry husbandry.
101. Poultry Husbandry. (3) II. DOUGHERTY, LLOYD
Lectures, Th F, 11; laboratory, F, 2-5.
The feeding, housing, breeding and general management of poultry; study of the egg; anatomy and physiology of poultry; parasites and sanitation.
102. Poultry Management. (3) II. DOUGHERTY, LLOYD
Daily practice by arrangement.
A practice course in operating incubators, keeping records, hatching eggs, brooding chicks, feeding and caring for pens of fowls. Course 101 must precede or accompany this course.
104. Pro-seminar. (2) II. DOUGHERTY, LLOYD
Prerequisite: courses 101 and 102.
Advanced study and discussion, including a review of literature.
105. Undergraduate Research. (1-3) II. DOUGHERTY, LLOYD
Prerequisite: courses 101 and 102; must be preceded or accompanied by course 104.
Original investigation of a problem in poultry husbandry, the results to be presented in a thesis.

RURAL INSTITUTIONS

101. Co-operative Marketing and Food Distribution. (3) I. CAMP
M W F, 8.
A study of rural and urban institutions and agencies for the distribution of products from and to the farm, including co-operative marketing and buying associations, farm bureau exchanges, country markets, auction markets, municipal markets and abattoirs, produce and grain exchanges, grain and cold storage warehouses, wholesale and retail stores. The purpose is to show the problem of sale and purchase by farmers through such agencies, the relative costs to producers and consumers of the different methods of marketing and purchase; and to consider reforms for regulating or directing the movement of farm products between producers and consumers, for eliminating the wastes of duplication in delivery, buildings and equipment, and for controlling the margins between producers and consumers.
102. Rural Credits and Land Settlement. (2) II. Tu Th, 10. MEAD
A study of the rural credit and land settlement policies needed to create organized rural communities and to make ownership of land by its cultivators a public policy. Lectures, readings and reports.

103. *The Rural Community and Its Organization.* (3) II. KERN
M Tu W, 9.

The social organization of rural communities. Origin, progress and chief characteristics of American rural society. Study of various phases of rural society in its community relations and agencies for the improvement of rural institutional life. Rural leadership in its relation to rural democracy and the problems of reconstruction. Classroom discussions, illustrated lectures, assigned readings and reports on special topics.

203. *Research in Rural Institutions.* I. MEAD
Prerequisite: courses 101, 102.

Open to qualified graduate students who desire to study organization of rural communities needed to make farm life more profitable and attractive and who desire to write a thesis or prepare for publication a paper on some question connected with these subjects.

204. *Research in Distribution of Farm Products.* CAMP
Either half-year.

Open to qualified students who wish to do field work in the problems of the distribution of special farm products.

SOIL CHEMISTRY AND BACTERIOLOGY

100. *Important Features of Soil and Plant Interrelations.* (2) II.
Tu Th, 11. LIPMAN

Lectures and recitations intended to clarify some of the modern views, methods and materials in plant physiology and soils science. Open to juniors and seniors in the College of Agriculture and in other technical scientific schools. Not open to those specializing in soil and plant investigations.

- 122A-122B. *Interrelations of Plants and Soils.* (4-4) Yr. LIPMAN, GERICKE

Laboratory, M W F, 1-4, and one lecture period by arrangement. Prerequisite: Chemistry 5, Agricultural Chemistry 101. 122B may be taken without 122A.

Laboratory and greenhouse experiments designed to train plant physiologists and soil scientists. Soil chemistry and soil bacteriology included. Recitations in conjunction.

- 126A-126B. *Pro-seminar in Soils.* (1-1) Yr. LIPMAN

Discussion of papers on various topics of research in soils. Required of all students in courses 122A, 122B and 127.

127. *Special Problems.* Yr. LIPMAN

Undergraduate research in soils for senior theses or publications. Prerequisites on consultation with the instructor.

235. *Research in Soils and their Relations with Plants.* Yr. LIPMAN

Open to qualified graduate students who desire to carry on research in plant physiology or soils, looking toward the attainment of the doctor's degree or toward publication of technical papers. Prerequisites on consultation with the instructor in charge.

236. Seminar in Soils and their Relations with Plants. (1-1) Yr.

GERICKE

Critical studies of advanced research in soils and plant physiology.

Prerequisites: graduate standing in soils, plant physiology, chemistry, biochemistry or agricultural chemistry.

SOIL TECHNOLOGY

Laboratory Fees.—A laboratory deposit of \$5 is required for course 1; of this \$4, less deductions for breakage, is returnable.

1. Soil Technology. (4) II.

SHAW, MONROE

Lectures and recitations, M W F, 10; laboratory: Sec. 1, M, 1-4; Sec. 2, W, 1-4; Sec. 3, F, 1-4. Prerequisite: Geology 1A, Chemistry 1A-1B.

The origin, formation and classification of soils; soil texture and structure and their relations; organic matter; soil moisture and its control; soil management.

99. Practice in Soil Surveying. (6).

SHAW, A. SMITH

Prerequisite: Soil Technology 1.

A six weeks' study of the methods of classifying and mapping soils, consisting of practical field work in soil surveying, and the preparation of soil reports. The field work will be supplemented by an inspection trip covering a large part of the state.

101. Soils of the United States. (3) II. M W F, 9. SHAW, A. SMITH

Prerequisite: Soil Technology 1.

A study of the soils of the United States with special reference to their classification, character, management and utilization.

- 102A-102B. Soil Physics. (3-3) Yr.

MONROE, SHAW

Laboratory, Tu Th, 1-4; one conference period by arrangement. Prerequisite: Soil Technology 1. May be repeated without duplication of credit.

A study of the physical composition of soils, soil structure, moisture relations and their modification.

103. Soils of California. (2) II. Tu Th, 9.

SHAW, WEIR

Prerequisite: junior standing in the College of Agriculture; open to other students only by permission.

The classification, general character and present utilization of the soils of California, including a study of each of the important soil series occurring in the state.

200. Research.

SHAW and The STAFF

299. Thesis for the Master's Degree.

SHAW and The STAFF

VETERINARY SCIENCE

The courses offered are designed to supplement the instruction in animal husbandry, poultry husbandry, dairy industry, parasitology, hygiene and public health.

The instruction in veterinary science does not prepare for the practice of veterinary medicine.

(Given at Davis)

110. **Elementary Anatomy and Physiology of Domestic Animals.** (3) I.
Two lectures, one laboratory period. HAYES

The digestive apparatus and digestion of food producing animals. Particular attention will be given to the anatomy and functioning of the reproductive organs of these animals and the bearing which this knowledge has on certain breeding difficulties, such as infectious abortion. A study of the bones and muscles and their relation to external conformation and judging of animals will be included.

101. **Poultry Diseases.** (2) II. Lectures and laboratory. BEACH
The anatomy and physiology of domesticated fowls and the nature and control of their diseases. Especial attention will be given to the diagnosis and control of infectious diseases.

111. **Veterinary Science.** (3) II. HAYES
Lectures, W, 8, Th, 9; laboratory, Th, 3-5, F, 1-5.
The more common diseases of horses, cattle, sheep and swine.

Veterinary Parasitology. (See Entomology 116.) FREEBORN

119. **Undergraduate Thesis. Advanced Dairy Bacteriology.**
Prerequisite: Bacteriology 1. HART, HAYES
Original study in special topics.

200. **Research.** HART, HAYES
Laboratory and field research on special topics.

299. **Thesis for the Master's Degree.**

VITICULTURE AND FRUIT PRODUCTS

99. **Practice in Viticulture or Fruit Products.** The STAFF
Six weeks' field work under an instructor for credit (6 units) or three months' work in vineyard or fruit products establishment without credit.

112. **Fruit and Vegetable Products.** (3) I. CRUESS, CHRISTIE
M W F, 8. Prerequisite: Chemistry 1A-1B and Bacteriology 1, or their equivalents.

Lectures on the principles and practice of preparation, preservation, and examination of such fruit and vegetable products as canned fruits and vegetables, dried fruits and vegetables, preserves, jellies, jams, vinegar, and denatured alcohol.

115. Fruit and Vegetable Products. (3) I. CRUESS, CHRISTIE
M W F, 1-4. Prerequisites: Chemistry 1A-1B and Bacteriology 1,
or their equivalents. Viticulture and Fruit Products 112 should accom-
pany this course.

Laboratory practice in preparation and examination of fruit and
vegetable products; accompanied by several trips to nearby canneries,
evaporators, and other food preservation establishments.

199. Undergraduate Investigation and Pro-seminar in Viticulture or Fruit
Products. Either half-year. The STAFF

233. Graduate Research in Viticulture. Either half-year.
BIOLETTI, BONNET, FLOSSFEDER

237. Graduate Research in Fruit Products. Either half-year.
CRUESS, CHRISTIE

299. Thesis for the Master's Degree. Either half-year. The STAFF

(Given at Davis)

- 116A-116B. Viticulture. (5-5) Yr. BIOLETTI, BONNET
Prerequisite: junior or senior standing in the College of Agriculture.

Lectures accompanied by laboratory and field practice in the culture
of raisin, table, and other grape varieties, the harvesting and packing
of table and shipping grapes, and the drying of grapes.

ANATOMY

HERBERT MCLEAN EVANS, B.S., M.D., Professor of Anatomy.
 ROBERT O. MOODY, B.S., M.D., Associate Professor of Anatomy.
 VICTOR E. EMMEL, Ph.D., Associate Professor of Anatomy.
 PHILIP E. SMITH, Ph.D., Assistant Professor of Anatomy.
 KATHARINE J. SCOTT, A.B., M.D., Instructor in Anatomy.
 MELVILLE L. MONTGOMERY, A.B., Assistant in Anatomy.
 THEODORE C. LAWSON, M.A., Assistant in Anatomy (to Dec. 31, 1920).

RALPH W. SWEET, Instructor in Anatomical Illustration.

The department is equipped for investigation in the fields of systematic anatomy, neurology, histology, and embryology. The equipment includes a library of the chief anatomical periodicals and monographic literature and special facilities for experimental work.

Laboratory fees for non-medical students are as follows: Courses 101, 102, 103, \$5; 105, \$15 for the entire course or \$5 for each part. For the fees charged students in the Medical School, see the Announcement of the Medical School.

Microscopic Anatomy

101. Histology and Microscopic Organology. (6) I.

EVANS, SCOTT, MONTGOMERY

3 laboratory and 3 lecture periods a week. M W F, 8-12. Prerequisites: chemistry, physics and elementary biology (zoology, botany, or physiology).

The course is given from the viewpoint of the activities of the living cell, the relation between structure and function being held uppermost. At the same time opportunity is afforded for a comprehensive review of human and comparative histology. Individual loan collections supplement the laboratory work.

103. Organs of Special Sense and Neurology. (3) I. SMITH, SCOTT
 August 17-October 5; 2 lectures and 3 laboratory periods a week.
 Tu Th S, 8-12.

In this course special attention is paid to the macroscopic and microscopic architecture of the central nervous system and the organs of special sense. The neuron studied in course 101 is used as the unit in the construction of the nervous system with a view of tracing origin, development, and final arrangement of the different pathways for nerve impulse. Considerable attention is given to a consideration of the growth and development of the nervous system.

¹ In residence first half-year only, 1920-21.

Systematic Human Anatomy

102. General Human Anatomy. (3) II. MOODY, —
 Demonstrations, Tu Th, 9; laboratory, W, 1-4. Prerequisite: Zoology 1A or Physiology 1.

A study of the human body. Demonstrations and laboratory study of prepared human dissections, models and microscopic slides. For students of public health and physical education. Other non-medical students may be admitted by arrangement with the instructor if size of class permits. Not open to freshmen.

105. Systematic Human Anatomy. (10) I. MOODY, EMMEL, SMITH, LAWSON
 Tu Th, 8-12; M Tu W Th F, 1-5.

The systematic dissection of the human body. For convenience the work is divided into thirds or "parts," to wit: Head and Neck, Arm and Thorax, Leg and Abdomen. To better facilitate instruction students in the Medical School are required to finish each part in accordance with a prescribed time schedule.

108. Regional and Topographical Anatomy. (3) I. MOODY
 October 6-November 30; Sec. I, M W, 8-12; Sec. II, Tu Th, 8-12.

Living models, special dissections and sections of the body are used in this course to enable the student to become more familiar with structural relations and to assemble information obtained in preceding dissections. Students who are accepted for course 213 may substitute that course for this course.

109. Anatomy for Physicians and Advanced Students. The STAFF
 Either half-year.

120. Anatomical Draughtmanship and Illustration. (1-4) I. SWEET
 S, 9-12 and other hours.

A course in anatomical draughtmanship open to medical students of the first and second years, art students, research workers and members of the faculty who desire to familiarize themselves with the best methods of graphic reproduction of gross and microscopic structures either as methods of record or for publication.

Electives

209. Human Embryology. Either half-year. EVANS

Opportunity is offered for the study of specific problems in human embryology. The collections of both human and comparative embryological material are constantly being augmented. The elective is offered only to students familiar with vertebrate embryology.

210. Physiological Anatomy of Reproduction. Either half-year. EVANS
 1 hr. weekly.

Informal conferences and demonstrations. The oestrus cycle, implantation, comparative placentation, etc. Outside reading required.

211. Haematology. Either half-year.

EMMEL

An intensive study of the blood and blood forming organs and their relation to current haematological problems. The subject includes the finer structures of the nuclear and cytoplasmic elements and their role in physiological reactions of the blood; cytomorphism and histogenesis as correlated with specialization of function; origin and localization in embryonic development; proliferation, regeneration and quantitative regulation with reference to normal and abnormal activities in the adult organism.

212. Experimental Embryology. II.

SMITH

Conference and original work by the experimental method chiefly with amphibian material on problems of developmental mechanics.

213. Original Investigation.

The STAFF

Hours optional. Either half-year.

Students and others who are prepared to undertake research in any of the anatomical sciences will be given facilities and encouragement by members of the staff. Time devoted by the majority of the second-year class to course 108 can be applied here by those specially qualified.

214. Topics will be discussed by the staff and those electing the course. Either half-year.

For the year 1920-1921 topics will be chosen from the field of physiological histology.

ANTHROPOLOGY

A. L. KROEBER, Ph.D., Professor of Anthropology and Curator of the Anthropological Museum.

T. T. WATERMAN, Ph.D., Associate Professor of Anthropology.

*PAUL RADIN, Ph.D., Assistant Professor of Anthropology.

***EDWARD W. GIFFORD, Associate Curator of the Anthropological Museum
and Lecturer in Anthropology.**

**LESLIE SPIER, Ph.D., Associate Curator of the Anthropological Museum
and Lecturer in Anthropology.**

PAUL-LOUIS FAYE, B. ès L., LL.B., Teaching Fellow in Anthropology.

JAMES C. SCOTT, A.B., Teaching Fellow in Anthropology.

MATTHEW W. STIRLING, A.B. Teaching Fellow in Anthropology.

PREPARATION FOR THE MAJOR

Required: Anthropology 1A-1B. (8). The selection of upper division courses must include 103A-103B.

LOWER DIVISION COURSES

1A. General Anthropology: Origin and Antiquity of Man. (4) I.

M W F, 9, and weekly section meeting.

The STAFF

Man as an animal; heredity; races and race problems; earliest culture.

1B. General Anthropology: Origin and Development of Civilization. (4)

11. M W F, 9, and weekly section meeting.

The STAFF

The source and growth of institutions, arts, customs, industries, language, and religion.

UPPER DIVISION COURSES

103A. Ethnography of Oceania and Africa. (3) I. M W F, 3. WATERMAN

The native tribes and nations of Oceania and Africa. Lectures and conferences.

103B. Ethnography of Europe, Asia, America. (3) II. M W F, 3.

WATERMAN

The peoples and cultures of Europe, Asia, and America.

104. Fossil Man. (3) II. M W F, 2.

WATERMAN

Evolution as illustrated in the skeletal remains of early man and his fore-runners. Primitive life as shown by prehistoric implements and other remains.

* Absent on leave, 1920-21.

105. **The North American Indians.** (3) I. M W F, 9. SPIER
The native peoples and indigenous civilizations of America north of Mexico.
- *115. **Peoples of the Philippines.** (3) II. M W F, 10. KROEBER
Black and brown races; pagan peoples; Hindu, Mohammedan, and Christian influences; East Indian relations; present status.
125. **Social Origins.** (3) II. M W F, 9. SPIER
The development of marriage, society, and government.
132. **Anthropology of the Bible.** (3) II. M W F, 10. KROEBER
The Old Testament as an historical document in the light of archaeology and anthropology.
137. **Indians of California.** (3) I. M W F, 10. KROEBER
Origin and relationships of the natives; prehistoric remains; shell mounds. Tribal divisions; arts; customs; industries; beliefs.
- *138. **Ancient Egypt.** (3) II. M W F, 10. GIFFORD
The origin and relationships of the ancient Egyptians; the evolution of their arts, industries, religion, and society from the earliest times to the Arab conquest.
145. **Indians of Mexico and Central America.** (3) I. M W F, 2. WATERMAN
Ancient Aztec and Maya cities. Architecture, writing, calendar system, ceremonies, government, poetry, and art of the ancient and modern peoples.
- 199A-199B. **Honors Course.** (3-3) Yr. KROEBER
M W, 11, and an hour to be arranged.
Special problems by individual students, with credit of not less than 3 units.

GRADUATE COURSES

- 206A-206B. **Seminar: Ethnography of the American Indian.**
(At least 3) Yr. Tu, 7:30-9:30 p. m. WATERMAN
- 207A-207B. **Special Problems: Field Methods** (at least 3) Yr. KROEBER
M W, 11.
299. **Thesis for the Master's Degree.**

* Not to be given in 1920-21.

ARCHITECTURE

JOHN G. HOWARD, Fellow in the American Institute of Architects, Professor of Architecture, and Director of the School of Architecture.

WILLIAM C. HAYS, B.S., Associate Professor of Architecture.

WARREN C. PERRY, B.S., Assistant Professor of Architecture.

M. EARL CUMMINGS, Assistant Professor of Modeling.

RAYMOND W. JEANS, M.A., Instructor in Water-Coloring and Pen and Ink Drawing.

WILLIAM E. LELAND, B.S., Lecturer in Architectural Mechanics.

PREPARATION FOR THE MAJOR

Required: Architecture 5 (2 units), 11 (3), 12 (2), 13 (2); Mathematics 3 (6), 4 (6); Graphic Art 14 (4); Drawing 3 (9); Physics 1 (6); Civil Engineering 8 (2).

Honors-Students in the Upper Division.—The student must have received honorable mention with the junior certificate, or, in case of seniors, have completed the junior work in architectural design with distinction.

1. Candidates for honors must be registered in the architectural curriculum as laid down in the Circular of Information.

2. At the beginning of each half-year each candidate will be required to submit his study-list to the chairman of the department for approval, and thereafter work in close touch with the various instructors, attending such conferences and making such reports as may be asked for.

3. Under the "value" system, as defined in the Circular of Information, honors-students will be encouraged to proceed to the more advanced work in design as they show fitness for it.

4. Honors in architecture require distinguished excellence in design and thoroughly satisfactory work in construction.

LOWER DIVISION COURSES

Courses 5A-5B, 5C-5D, 5E-5F are open to all students specially interested in architecture and as a free elective to upper division students.

Graphic Art 14 is prerequisite to the following: courses 12A-12B and 13A-13B.

*†5A-5B. History of Ancient and Classic Architecture. HOWARD

A general survey of the history of ancient and classic architecture, with an analytical study of its character, illustrated with lantern slides.

*†5C-5D. History of Mediaeval and Renaissance Architecture. HOWARD

The architecture of the Middle Ages and the Renaissance period, illustrated with lantern slides.

* Courses 5A-5B, 5C-5D will not be given in 1920-21.

† The full course in History of Architecture and Allied Arts (5A-5B, 5C-5D, 5E-5F) is covered in three years, the courses being given in succession, one each year.

- †5E-5F. History of Modern Architecture and Allied Arts. (1-1) Yr.
 Tu, 2. HOWARD
 A detailed study of modern architecture and allied arts, illustrated with lantern slides.
11. Classic Orders of Architecture. (3) II. PERRY
 Prerequisite: Drawing 3A, 3B, 3C.
- 12A-12B. Water Color. (1-1) Yr. JEANS
 Sec. 1, M, 1-4; Sec. 2, Th, 9-12.
 Architectural rendering in water color.
- 13A-13B. Pen and Ink. (1-1) Yr. JEANS
 Sec. 1, F, 1-4; Sec. 2, Th, 1-4.
 Architectural subjects rendered in pen and ink.
- 14A-14B. Modeling. (1-1) Yr. CUMMINGS
 Sec. 1, Tu, 8-11; Sec. 2, F, 8-11.
 Modeling of architectural ornament.

NOTE.—Courses 12A-12B, 13A-13B, 14A-14B may be continued and additional credit received. Extra credit will also be allowed for additional work in these courses at the rate of one unit for each three-hour period.

UPPER DIVISION COURSES

Course 101 or 102 must accompany the following: courses 105A-105B, 105C-105D, 105E-105F.

- 101A-101B. Elements of Architecture. (3-3) Yr. PERRY
 M, 4-6; W, 3-5. Prerequisite: course 11 and junior standing.
 Elementary architectural design.
- 102A-102B. Planning. (5-4) Yr. HAYS
 Prerequisite: course 101A-101B. Course 106C-106D must be taken concurrently.
 Fundamental problems in planning.
- *105A-105B. Historical Drawings in Ancient and Classic Architecture. (1-1) Yr. HOWARD, PERRY
- *105C-105D. Historical Drawings in Mediaeval and Renaissance Architecture. (1-1) Yr. HOWARD, PERRY
- 105E-105F. Historical Drawings in Modern Architecture and the Allied Arts. (1-1) Yr. HOWARD, PERRY
- 106A-106B. Theory of Architecture. (1-1) Yr. PERRY
 Pro-seminar, prescribed for students in course 101A-101B.

† The full course in History of Architecture and Allied Arts (5A-5B, 5C-5D, 5E-5F) is covered in three years, the courses being given in succession, one each year.

* Not to be given, 1920-21.

- 106C-106D. Theory of Architecture. (1-1) Yr. HAYS
Continuation of course 106A-106B. Pro-seminar, prescribed for students in course 102A-102B.
- 108A-108B. Architectural Mechanics. (3-3) Yr. M W F, 8. LELAND
Mechanical, electrical, and plumbing installation and equipment in relation to architecture. Sanitation. (a) Heating, ventilating, and power; (b) plumbing, sanitation, lighting, elevators, vacuum cleaning, automatic sprinklers, etc.
110. Housing. (1) II. Th,2. HAYS
Lectures on the house—isolated and collective: its historic and aesthetic development; its elements and their arrangements; its equipment.

GRADUATE COURSES

- 203A-203B. Planning and Composition. (8-8) Yr. HOWARD
Tu Th, 3-4:30. Prerequisite: course 102A-102B.
Problems in planning and composition.
204. Advanced Design. (15) I. HOWARD
Prerequisite: course 203A-203B.
Advanced problems in planning and composition.
- 206E-206F. Seminar in the Theory of Architecture. (1-1) Yr. HOWARD
Continuation of course 106C-106D. Prescribed for students in course 203A-203B.
- 209A-209B. Professional Practice and Business Relations. (3-2) Yr. HAYS
Prerequisite: course 102A-202B or 101A-101B and graduate standing.
Seminar in office practice, working drawings, specifications and ethics.
- 299A-299B. Research and Thesis for Master's Degree. (1-4) Yr. HOWARD
Course 203A-203B must be taken concurrently. Prerequisite: graduate standing and course 102A-102B.
216. Graduate Thesis and Seminar. HOWARD
Prerequisite: course 204.
A course to be arranged individually with students looking toward a degree in architecture.

COURSES IN OTHER DEPARTMENTS

- Strength of Materials. (See Civil Engineering 118A-118B).
- Materials of Engineering Construction. (See Civil Engineering 8.)
- Framed Structures. (See Civil Engineering 107E-107F, 117.)
- Life Drawing (Graphic Art 128A-128B).

ASTRONOMY

ARMIN O. LEUSCHNER, Ph.D., Sc.D., Professor of Astronomy and Director of the Students' Observatory.

RUSSELL T. CRAWFORD, Ph.D., Professor of Astronomy.

STURLA EINARSSON, Ph.D., Associate Professor of Practical Astronomy.

WILLIAM F. MEYER, Ph.D., Assistant Professor of Astrophysics.

FREDERICK C. LEONARD, M.S., Teaching Fellow in Astronomy.

RAYMOND H. SCIOBERETI, A.B., Teaching Fellow in Astronomy.

PREPARATION FOR THE MAJOR

Required: Plane trigonometry; Mathematics 5 (3), 9 (3); French or German; Physics 1A-1B.

Recommended: Astronomy 1, 2A, 5 and 11.

Honors-Students in the Upper Division.—The following courses are prerequisite to honors-work in the upper division: Mathematics, either 5, 8 and 9, or 3 and 4; Physics 1A-1B. In addition to these, Chemistry 1A and Geology 1A are recommended. A student in the honors-group may be recommended for honors in astronomy at graduation:

1. Upon presenting a satisfactory written report (review or criticism) of some astronomical work (theoretical or practical), an account of which has been printed in some standard astronomical periodical or other publication; or

2. Upon presenting a complete and satisfactory computation in orbit theory or eclipses; or

3. Upon presenting a complete report of some advanced practical work done by the student.

Candidates for honors must prepare a programme at the beginning of their candidacy in consultation with the member of the department designated to supervise their work. On approval of this plan of study the student will proceed to its completion, attending conferences and making such reports of progress as may be requested.

Honors-students will be allowed much freedom in their studies. To justify this, the work which they do must be consistently of high quality. The department will recommend the exclusion from the honors-group of all students who do not maintain each half-year an average of at least 60 per cent of first and second grades in all their courses and who do not complete their courses in astronomy with high credit. Candidates must fulfill the requirements for a major in astronomy and must enroll for Astronomy 206. (Although this course is listed as a graduate course, it may be taken by advanced undergraduates.) A reading knowledge of French and German is required.

Laboratory Fees.—An observatory fee of \$2.50 per half-year is charged in courses 2A-2B, 104A-104B, 114, 117.

LOWER DIVISION COURSES

- 1-2. Elementary Astronomy—Combination of Courses 1 and 2A. (5).
 Either half-year. CRAWFORD
 Lectures and section work as course 1; observatory work, course 2A.
1. Elementary Astronomy. (3). Either half-year. CRAWFORD
 M W F, 10.
 An introductory course. General facts and principles underlying the science of astronomy in all its branches.
 The classes will be divided into smaller sections in which recitations, examinations, and conferences will be conducted. In the second half-year a separate section, 2 hrs., will be conducted for students who have the equivalent of the entrance requirements in mathematics and physics for the colleges of engineering.
- 2A-2B. Practice in Observing. (1). Either half-year. MEYER, LEONARD, SCIOBERETTI
 Either half-year. In four sections. M Tu W Th, 7:15-10 p.m.
 These courses are supplementary to course 1 or 11 or 103A-103B, and are open to students who are taking or have taken any of these courses. The students may enroll for from 1 or 2 units by electing 2A, or 2A and 2B.
- 2A. Practical work at the observatory for beginners, with special emphasis on the elementary methods of determining time, latitude, and longitude. Constellation study. Descriptive observations of celestial objects. 3 hrs., either half-year; 1 unit.
- 2B. Continuation of course 2A. 3 hrs., either half-year; 1 unit. Prerequisite: course 2A.
5. History of Astronomy. (3) I. M W F, 2. CRAWFORD
 Prerequisite: course 1.
11. Modern Astronomy. (3) II. M W F, 10. EINARSSON
 Prerequisite: course 1.
 The stars and nebulae. Progress in astronomy through modern methods, especially spectroscopic and photographic.

COURSE PRIMARILY FOR ENGINEERS

3. Surveyors' Course in Elementary Practical Astronomy. (1) II. EINARSSON
 Sec. 1, M, 1-4; Sec. 2, Tu, 1-4; Sec. 3, W, 1-4.
 Prerequisite: Civil Engineering 1A. Civil Engineering 1B is to be taken concurrently.
 The principles of spherical trigonometry and astronomy adapted to the needs of students in the colleges of engineering. Computing.

UPPER DIVISION COURSES

A working knowledge of differential and integral calculus is prerequisite to courses 107 and 108.

Course 104A or 114 is prerequisite to courses 110 and 112.

- 103A-103B. General Astronomy. (3-3) Yr. M W F, 9. EINARSSON
 Prerequisite: Mathematics 5 and Physics 1A-1B.
 The general facts and principles underlying the science of astronomy in all its branches, developed and discussed in detail.
 For observatory work in connection with this course students may elect course 2 or 104A-104B, subject to the prerequisites announced.

- 104A-104B. Practical Astronomy. (3-3) Yr. LEUSCHNER
 Tu Th, 9; M, 7-10 p.m.
 Prerequisite: Mathematics 5, Physics 1A-1B, and either course 1 or 103A.
 Lectures and observatory work. Practical work at the observatory with sextant, clock, chronograph, transit-and-zenith telescope, equatorial telescope, photographic telescope, reflector, altazimuth instrument. Computing.

The course should also be preceded by a course in differential calculus.

- 105A-105B. Navigation and Nautical Astronomy. (3-3) Yr. EINARSSON
 Tu Th, 11, and one observing period. Prerequisite: Mathematics C.
 Astronomy as applied to navigation. Use of sextant, chronometer, compass, Nautical Almanac, nautical tables. Determination of time, latitude, and longitude on shipboard by the methods of Marq St. Hilaire, Aquino, and Johnson. Sailings. Great circle sailing. Deviations of the compass.

107. Method of Least Squares. (2) I. M F, 1-4. EINARSSON
 The fundamental principles and processes of the method of least squares and their application to the solution of astronomical, physical, and engineering problems.

108. Interpolation. (3) II. LEUSCHNER
 The more useful formulae of interpolation, and their application in the use of astronomical and other tables. Development of the formulae of numerical differentiation and integration and their application in the construction of tables. Practice in extensive numerical computations, with special aim at rapidity and exactness.

- *110. The Theory of Astronomical Refraction. (2) I.

- *112. Eclipses. (3). Either half-year. CRAWFORD

116. Measurement and Reduction of Astronomical Photographs. (3) II. EINARSSON

117. Astrophysics. (3) II. MEYER

Tu Th, 10, and one laboratory period.

A general review of present-day problems in astrophysics with particular reference to the application of the spectroscope to their solution.

*Not to be given, 1920-21.

114. Practical Astronomy for Engineers. (3) I. EINARSSON
 Tu Th, 9, and one observing period.
 Prerequisite for students in the College of Civil Engineering:
 Astronomy 3 and Civil Engineering 3.
 The subject matter of course 104 more briefly presented, and
 adapted to the needs of students of civil engineering. The observatory
 is open for this course two evenings and one afternoon. The arrange-
 ment of the work depends so largely upon weather conditions that the
 student should reserve for this course several observatory periods.

GRADUATE COURSES

Every graduate course may be taken as a seminar course by arrange-
 ment with the instructor.

Course 206 is prerequisite to courses 207 and 212A-212B.

206. Theoretical Astronomy. (3) I. LEUSCHNER
 Prerequisite: course 1 or 103A; Mathematics 4 or 109A-109B; ordi-
 narily also Physics 105A. Open to advanced undergraduates.
207. Theoretical Astronomy. (3) II. LEUSCHNER
 The relative accuracy of the various methods of determining pre-
 liminary orbits.
- 208A-208B. Introduction to Celestial Mechanics. (3-3) Yr. LEUSCHNER
 M W F, 9.
209. Special Perturbations. (3) I. CRAWFORD
- *†210A-210B. The General Perturbations of the Minor Planets after
 Hansen, Newcomb, and Hill. CRAWFORD
- †212A-212B. Satellite Theory and Introduction to the Lunar Theory.
 CRAWFORD
- †213. Selected Topics in Celestial Mechanics. Either half-year.
 LEUSCHNER
214. Advanced Practical Astronomy. (3). Either half-year. EINARSSON
 M W, 11; M, 7-10 p.m. Prerequisite: course 104A-104B.
215. Advanced Study and Research. (1). Either half-year. The STAFF
 Critical discussion and review of current astronomical publications.
 Investigation of special problems to be selected according to the
 preparation and the needs of individual students.
299. Thesis for the Master's Degree. _____

* Not to be given, 1920-21.

† These courses form a series which the student can complete in about
 three years. From two to three of these courses are offered every half-
 year, the selection being based on the needs and the preparation of the
 graduate students in astronomy.

COURSES IN OTHER DEPARTMENTS

Spectroscopy. [See Physics 211.]	LEWIS
Railroad Surveying. [See Civil Engineering 102.]	FOOTE
Higher Surveying and Geodesy. [See Civil Engineering 105.]	FOOTE

LICK OBSERVATORY

The Lick Observatory at Mount Hamilton forms a separate department of the University. The unrivaled facilities for advanced astronomical work which are offered by its fine equipment, in this favorable location, are too well known to require description here. The department is open to graduate students under regulations prescribed by the Regents. The degrees of Master of Arts and Doctor of Philosophy are offered to students who have fulfilled the required conditions. (See Announcement of the Graduate Division.) For information relating to graduate work at the Observatory intending students should address the Recorder of the Faculties at Berkeley, or the Director of the Lick Observatory, at Mount Hamilton, Santa Clara County, California.

BIOCHEMISTRY AND PHARMACOLOGY

WALTER R. BLOOR, Ph.D., Professor of Biochemistry.
 CARL L. A. SCHMIDT, Ph.D., Assistant Professor of Biochemistry.
 EDWARD S. SUNDSTROEM, M.D., Instructor in Biochemistry.
 GUY W. CLARK, Ph.D., Instructor in Pharmacology.
 G. LEB. FOSTER, M.A., Associate in Biochemistry.
 S. BRODY, M.A., Assistant.
 ———, Assistant.

PREPARATION FOR THE MAJOR

Required: matriculation physics and chemistry; Chemistry 1 (10 units), 8 (3), 9 (3). For medical students, in addition to above, Zoology 1 (9). Recommended: Chemistry 5; German, Zoology 1, or Physiology.

For science and general students the prerequisites for the study of biochemistry are as follows: Matriculation physics and chemistry, Chemistry 1A-1B, 8 and 9. A course in biology, e.g., Zoology 1A-1B or Physiology, is desirable.

For medical students the prerequisites are as prescribed for the medical school. Courses 101 and 102M are required.

The attention of intending advanced students in biochemistry is called to the fact that modern developments in this field call increasingly for a good knowledge of physical chemistry, quantitative chemical methods and the ability to read French and German scientific literature.

The equipment of the department affords ample opportunities for research. Facilities are offered to any qualified student who desires to undertake a well planned investigation in the field of biochemistry.

The joint library of the departments of biochemistry and physiology contains complete sets of the more important biochemical, physiological and pharmacological journals and the more important books and monographs on biochemical and related subjects.

The division of Clinical Laboratories (U. C. Hospitals) is now included in the department of Biochemistry and Pharmacology, but no courses are given.

UPPER DIVISION COURSES**101. Biochemistry. (9) II.**

BLOOR, SCHMIDT, SUNDSTROEM, FOSTER, and Assistants
 Lectures, M Tu W Th, 1, F, 9; laboratory, M Tu W Th, 2-5.

A breakage deposit of \$5 is required, in addition to a fee of \$10 for materials used. For fees charged medical students see Medical School Announcement.

The lectures in this course consist of a brief discussion of the physico-chemical basis of life processes, a survey of those classes of substances which are to be found in animals and plants, a discussion

of the changes which these substances undergo during life and during utilization as food, and a general survey of the field of nutrition and energy exchange.

The laboratory practice is designed to acquaint the student with the more important constituents of living matter and their chemical behavior, and with some of the routine methods used in the study of processes in living animals, especially in man. This course fulfills the requirements in biochemistry of the Medical School. Lectures and laboratory work may be taken separately; see courses 103-104 below.

102M. Pharmacology and Materia Medica. (3) II.

CLARK and Assistants

Lectures, Tu Th, 12-1 (at the Medical School in San Francisco); laboratory and demonstrations, S, 8:20-12:30 (in the Physiology Building, Berkeley). Conferences to be arranged. The properties and physiological action of drugs with illustrations derived from their therapeutic application. Experiments and demonstrations. Open only to students matriculated in medicine.

103. Biochemistry. Lectures only. (5) II.

BLOOR, SCHMIDT, SUNDSTROEM, FOSTER

M Tu W Th, 1; F, 9; together with conference periods to be arranged.

104. Biochemistry. Laboratory only. (4) II.

BLOOR, SCHMIDT, SUNDSTROEM, FOSTER, and Assistants

Prerequisite: course 103, completed or in progress. M Tu W Th, 2-5; conference periods to be arranged. Fees and deposits as in 101.

110. Advanced Biochemistry. Either half-year.

BLOOR, SCHMIDT, SUNDSTROEM, FOSTER

Prerequisite: course 101 or its equivalent.

Special methods and preparations together with reading, intended to prepare the student for research.

111. Undergraduate Research. I or II. BLOOR, SCHMIDT, SUNDSTROEM
Prerequisites: courses 101 and 110.

A limited number of selected students will be given topics for investigative study under the direction of some member of the department.

112. Seminar.

BLOOR

GRADUATE COURSES

210. Research in Biochemistry. Either half-year.

BLOOR, SCHMIDT, SUNDSTROEM

212. Seminar.

BLOOR

299. Thesis for the Master's Degree.

BOTANY

WILLIAM A. SETCHELL, Ph.D., Professor of Botany.

WILLIS L. JEPSON, Ph.D., Professor of Botany.

THOMAS H. GOODSPEED, Ph.D., Associate Professor of Botany.

NATHANIEL L. GARDNER, Ph.D., Assistant Professor of Botany.

— — —, Assistant Professor of Economic Botany.

TOWNSHEND S. BRANDEGEE, Ph.B., Honorary Curator in the Herbarium.

HARVEY M. HALL, Ph.D., Honorary Curator in the Herbarium.

HELEN BERGFRIED, M.A., Associate in Botany.

Six assistants.

PREPARATION FOR THE MAJOR

Required: Botany 2A, 2B (6).

Recommended: Chemistry 1A-1B, Physics 2A-2B, French, German.

Courses 2A, 2B are prerequisite to all upper division courses in botany. Lecture courses in the summer session may be equivalent to course 1 in part, and credit will not be given for both in such a case. Course 3 is also designed to fulfill lower division requirements in the College of Agriculture. Laboratory courses in the summer session may be equivalent to course 2A-2B; credit will not be given for duplicated work.

Courses 5, 104A-104B, and 105A are required for major subjects in certain divisions of the College of Agriculture.

Honors-students in the Upper Division.—Of the 24 units of upper division work required for graduation with honors, 16 units should consist of courses 104A-104B, 105A-105B, 109, 111, the remaining 8 units to be made up preferably from one of the more advanced courses in the department. In special cases, by permission of the chairman of the department, these 8 units may be taken in some allied department.

Honors-students will be given special opportunities as far as facilities will permit. These may consist of additional working room in the laboratories, of opportunities for herbarium, garden, or field work, or of additional individual attention and guidance from the instructor. If it seems advisable, an honors-student may after consultation with the instructor, substitute special field, laboratory, or garden studies for a part of the class work regularly required of other students.

For those students who expect to prepare for botanical research or teaching, a broad foundation in related subjects is strongly advised. The fundamental courses in physics and chemistry should be taken, if possible, before the work in botany is begun. Courses in physiology, zoology, and plant pathology may be included to advantage; higher mathematics is desirable; a reading knowledge of French and German is necessary; some knowledge of Latin is very desirable for advanced systematic botany.

Laboratory Fees.—A laboratory fee of \$2.50 will be charged each half-year for each laboratory course. This rule applies to courses 2A, 2B, 3, 5, 104A-104B, 105A-105B, 106A-106B, 107A-107B, 109, 110, 111, 112A-112B, 113A-113B.

LOWER DIVISION COURSES

1. Fundamentals of Botany. (3) I. M W F, 8. SETCHELL
Lectures, illustrated as far as possible by means of specimens, diagrams, and preparations; designed to set forth in a general way the most important facts, problems, and theories with which botanical science is concerned.
- 2A. General Botany. (4) I. GARDNER and Assistants
Lectures, M W, 2; laboratory, Sec. 1, Tu Th, 8-10; Sec. 2, Tu Th, 10-12; Sec. 3, Tu Th, 1-3; Sec. 4, M W, 8-10.
Prescribed for certain students in home economics.
A combination lecture, laboratory, recitation, and field course comprising the fundamentals of morphology and physiology of flowers, fruits, seeds, seedlings, roots, stems and leaves, with special reference to food producing, fiber producing, and ornamental plants. Field trips on alternate Saturday mornings.
- 2B. General Botany. (4) II. GARDNER and ASSISTANTS
Lectures, laboratory and field trips as in course 2A. Prerequisite: course 2A.
A continuation of course 2A, covering the lower orders of plants and an introduction to taxonomy of the flowering plants.
3. General Botany. (4) II.
(For students in the College of Agriculture only.)
4. Classification of Flowering Plants. (1) II. JEPSON
S, 8; alt. S, 9-12.
Lectures on plant structure, considering especially those organs most important in classification; accompanied by field work and practical exercises in determining species by means of a manual.
5. Economic Botany. (3) I. Lect. M W, 8; lab. M W, 10-12. —
Prerequisite: courses 2A, 2B; Chemistry 1A-1B.
Laboratory work on the morphology, classification, geographical distribution, and properties of plants which furnish commercial products and agricultural crops; lectures on the origin, collection, uses, and commerce of plant products.

UPPER DIVISION COURSES

- 104A-104B. General Phaenogamic Botany. (3-3) Yr. JEPSON
Tu Th, 1-4, with 3 hrs. field work to be arranged.
- 104A. Forest Botany.
Laboratory work on the botanical characters of forest trees and chaparral; practice in the determination of important California species; lectures on the classification of Gymnosperms and other groups, and on the essentials of morphology and physiology as applied to trees.
- 104B. Angiosperms.
Prerequisite: course 104A. Representative orders of flowering plants, dealing especially with their habits and growth, structure, classification, and geographical distribution. Laboratory work and lectures.

105A-105B. General Cryptogamic Botany. (3-3) Yr.

SETCHELL

Laboratory and lectures, M F, 1-4. May be taken either half-year by qualified students.

The orders of spore-bearing plants from the points of view of structure, development, and economic importance. Laboratory work and informal lectures.

106A-106B. Phycology and Mycology. (3-3) Yr.

SETCHELL

M W F, 1-4. Prerequisite: course 105A-105B.

Laboratory work upon the structure, development, and classification of the algae, fungi, and lichens, with informal lectures and the assignment of outside reading. Intended for students who desire some critical knowledge of the lower cryptogamous orders.

107A-107B. Pteridology and Bryology. (3-3) Yr.

SETCHELL

M W F, 1-4. Prerequisite: course 105A-105B.

The structure, development, and classification of the higher cryptogams (hepatics, mosses, ferns, and fern allies) will be treated in the same way as the lower cryptogams in course 106A-106B.

109. Vegetable Histology. (4) I. Tu Th alt. S, 9-12.

GOODSPEED

A study of the microscopical anatomy of the higher plants with reference to function and the influence of environment. There will be included practice in those methods of botanical microtechnique which have to do with the preparation of woody tissues—cutting and staining of freehand sections, the celloidin method, microchemical tests.

110. Botanical Microtechnique. (1) I. S, 9-12.

GOODSPEED

Practice in the cutting and staining of freehand sections; the celloidin method; the Venetian turpentine method; the paraffin method, including embedding, the use of the microtome and staining on the slide.

111. Vegetable Cytology. (4) I. Tu Th, 1-4; alt. S, 9-12.

GOODSPEED

The anatomy and physiology of the cell, including cell division, chromosome reduction and fertilization. There will be included practice in embedding, use of the microtome, and staining on the slide.

112A-112B. Special Taxonomic Studies. (3-3) Yr.

JEPSON

Tu Th, 9-12; field work, alt. S, 8-5. Prerequisite: course 104A-104B.

Studies in the special morphology of important natural orders, mainly from the taxonomic standpoint, followed by the critical examination of various West American genera. Students of agronomy, landscape gardening, forestry, genetics or other divisions are here offered opportunity for taxonomic study of the plant group in which their interest is primarily agricultural.

113A-113B. Taxonomy and Phylogeny of the Phaenogams. (3-3) Yr.

JEPSON

M W, 9-12; field work to be arranged. Prerequisite: courses 104A-104B and 105A-105B.

Characters and affinities of the classes and more important orders of seed plants, accompanied by informal discussions of phylogenetic problems. It is desirable that at least part of the summer in the year previous to the election of this course should be spent in field work, preferably in California.

GRADUATE COURSES

The equipment of the botanical department is fairly complete, permitting a wide range of studies. It includes the following collections:

(1) A phaenogamic herbarium of 185,000 sheets of mounted specimens and a large quantity of unmounted material which is available for use by responsible investigators. The flora of Western America is here better represented than in any other collection, which permits of satisfactory work in preparing revisions or monographs of these plants. The economic section contains representatives of the more common cultivated plants, particularly of those grown in California.

(2) A cryptogamic herbarium consisting of 25,000 mounted sheets. The representation of the west coast algae is undoubtedly the most complete in existence. These collections, together with the ease with which the marine forms may be collected, render the study of cryptogams, and particularly of algae, very satisfactory.

(3) A botanical museum containing valuable sections of woods, barks, cones, etc., available for class and research work.

(4) A botanical garden where native plants are grown and where cultural experiments may be carried on by qualified students.

225A-225B. Advanced Cryptogamic Botany. Yr. M W, 10-12. SETCHELL
Advanced and research work on the cryptogamic plants of California, particularly on the algae.

226A-226B. Advanced Phaenogamic Botany. Yr. M W, 1-4. JEPSON
Special problems requiring the original investigation of some particular order or smaller group of flowering plants; involves work in the field as well as in the laboratory.

227A-227B. Advanced Vegetable Histology and Cytology. Yr. GOODSPEED
M W F, 1-5.
Special problems in vegetable histology and cytology will be assigned to properly prepared students.

228A-228B. Advanced Plant Physiology. Yr. M W F, 1-5. GOODSPEED
Special problems in plant physiology will be assigned to properly prepared students.

230A-230B. Botanical Seminar. (1-1) Yr. M, 7 p.m. The STAFF
Graduates and advanced undergraduates meet once a week for the discussion of special topics. The chairman of the department should be consulted.

229. Thesis for the Master's Degree.
Students who are candidates for the Master's degree are required to enroll for work in connection with a thesis, the plan of which should be arranged with the instructor concerned.

COURSES IN OTHER DEPARTMENTS

The following courses in Agriculture are suggested as desirable collateral courses to the work of the department.

Agricultural Chemistry 103.

Plant Pathology 120.

Agronomy 108.

Soil Chemistry 122A-122B, 235.

Genetics 1.

CELTIC

WILLIAM W. LYMAN, Jr., M.A., Associate in English and Celtic.

PREPARATION FOR THE MAJOR

Required: Celtic 1 (6). Recommended: Latin or Greek; a modern language.

LOWER DIVISION COURSE

1A-1B. Elementary Modern Irish. (3-3) Yr. **LYMAN**
Essentials of grammar; stories and poems by contemporary writers.

UPPER DIVISION COURSES

101A-101B. Advanced Modern Irish. (2-2) Yr. **LYMAN**
Prose romances of the eighteenth and nineteenth centuries.

104A-104B. Advanced Modern Welsh. (2-2) Yr. **LYMAN**
Reading of prose texts.

150A-150B. The Development of Irish Philology and Literature. **LYMAN**
Special problems.

GRADUATE COURSE

*201. Seminar in Old Irish. (3-3). Either half-year. **LYMAN**
Intensive study of Old Irish documents with discussions of the relation of the language to comparative philology.

* Not to be given, 1920-1921.

CHEMISTRY

GILBERT N. LEWIS, Ph.D., Professor of Chemistry and Dean of the College of Chemistry.

EDMOND O'NEILL, Ph.B., Professor of Inorganic Chemistry and Director of the Chemical Laboratory.

WILLIAM C. BRAY, Ph.D., Professor of Chemistry.

JOEL H. HILDEBRAND, Ph.D., Professor of Chemistry.

WALTER C. BLASDALE, Ph.D., Professor of Chemistry.

CHARLES W. PORTER, Ph.D., Associate Professor of Chemistry.

MERLE RANDALL, Ph.D., Assistant Professor of Chemistry.

GEORGE E. GIBSON, Ph.D., Assistant Professor of Chemistry.

GERALD E. K. BRANCH, Ph.D., Assistant Professor of Chemistry.

ERMON D. EASTMAN, Ph.D., Assistant Professor of Chemistry.

THOMAS D. STEWART, Ph.D., Assistant Professor of Chemistry.

WENDELL M. LATIMER, Ph.D., Instructor in Chemistry.

ROY F. NEWTON, Ph.D., Instructor in Chemistry.

HARRY EAST MILLER, Ph.D., Research Associate.

AXEL B. OLSEN, Ph.D., Research Associate.

WORTH H. RODEBUSH, Ph.D., Research Associate.

F. RUSSELL BICHOWSKY, Ph.D., Research Associate.

Laboratory Fees.—The deposit required for courses 1A and 1B is \$17.50, of which the maximum amount returnable is \$5; for courses 5, 6A, 6B, 120, 120H, 121, 121H, 124, 141, 145, 179, 180H, it is \$17, of which the maximum amount returnable is \$5; for courses 9, 100, 101, it is \$28, of which the maximum amount returnable is \$10; for courses 111, 111H, it is \$23, of which the maximum amount returnable is \$5.

PREPARATION FOR THE MAJOR

Minimum requirement, before the junior year: Chemistry 1A-1B (10), Physics 1A-1B or 2A-2B (6), Mathematics 3A-3B (6) or 5 (5), German. Chemistry units in excess of 14 are counted as upper division credits.

Chemistry 1A-1B is prerequisite to all other courses in chemistry. Students who intend to take work beyond Chemistry 1A-1B should enter upon courses 6A-6B, 8, 9, and 110 before proceeding with any more advanced course. A thorough training in physics and mathematics should not be neglected. The sequence of courses listed for the College of Chemistry in the Circular of Information is recommended.

All undergraduate students from other institutions, who desire to take courses in chemistry more advanced than course 1A-1B, must present themselves to Mr. Blasdale, 221 Chemistry Building, on or before the

date of their registration for an informal examination or test of their fitness to undertake such work.

Students in the College of Chemistry are required to submit their proposed schedules to Mr. O'Neill, 114 Gilman Hall. Students in the College of Letters and Science who propose to make chemistry their major are recommended to consult Mr. Hildebrand, 115 Gilman Hall. Whether the student intends to prepare himself for research in governmental, industrial, or educational institutions, for teaching, for analytical chemistry, manufacturing chemistry, the chemistry of petroleum or any of the other branches of chemical engineering, it is desirable that a complete schedule of courses, chosen with a definite purpose and free from conflicts, be arranged at the earliest possible date. A general schedule for students in chemical engineering will be found in the announcement of the College of Chemistry in the Circular of Information.

The chemical laboratories are well equipped for research work, and are open to properly qualified graduate students, not only during the college year but also throughout the summer vacation.

Honors-Students in the Upper Division.—Students in the College of Chemistry, and those in the College of Letters and Science who propose to make chemistry their major, are urged, when eligible, to enroll at the beginning of their junior year as candidates for honors. Honors-students will be given a larger share of personal instruction and a greater opportunity to choose courses, and work within courses, in a manner best suited to individual needs and aims. Students not in the honors-group will not, except under unusual circumstances and with the express permission of the instructor, be permitted to enroll for honors courses (marked H) nor for undergraduate research. Students in the College of Letters and Science enrolled in the honors-group will not ordinarily be recommended for honors in chemistry at graduation unless their work includes courses 6A-6B, 8, 9, 110, 114H, 116H, and 180H. Students enrolled in the honors-group should confer with Mr. Bray, Chairman of the Committee on Honors in Chemistry, regarding their whole plan for the last two years of college work.

LOWER DIVISION COURSES

- 1A-1B. General Chemistry. (5-5) Yr. HILDEBRAND, BRAY, LATIMER
Lectures in three sections: Sec. 1, Tu Th, 11; Sec. 2, W F, 9; Sec. 3, W F, 10. Laboratory and quiz in five sections: Sec. 1, M F, 8-11; Sec. 2, M F, 1-4; Sec. 3, Tu Th, 9-12; Sec. 4, Tu Th, 1-4; Sec. 5, W, 1-4, S, 9-12. Prerequisite: any two of the following—high school chemistry, physics, trigonometry.
5. Quantitative Analysis. (3). Either half-year. BLASDALE
Lecture, S, 9; laboratory, M F, 1-4.
Short course in the principles and methods of quantitative analysis; for students who do not intend to take further work in chemistry.
- 6A-6B. Quantitative Analysis. (3-3) Yr. BLASDALE, GIBSON
Lecture, Sec. 1, W, 9, Sec. 2 to be arranged; laboratory, Tu Th or M F, 1-4.
Full course in the principles and methods of quantitative analysis.

8. Organic Chemistry. (3). Either half-year. PORTER, STEWART
Tu Th S, 8.

An introductory study of the compounds of carbon. Lectures with experimental illustrations. Laboratory course 9 should, if possible, be taken at the same time.

9. Organic Chemistry—Laboratory. (3). Either half-year.
PORTER, STEWART, BRANCH
Sec. 1, M, 1-5, F, 1-4; Sec. 2, Tu, 1-5, Th, 1-4; Sec. 3, W, 1-5, S, 9-12.

An experimental study of the physical properties and chemical reactions of the common classes of organic substances. Open to students who are taking or have taken Chemistry 8.

UPPER DIVISION COURSES

100. Organic Chemistry—Advanced Laboratory. (3) II. STEWART
M W F, 1-4. Prerequisite: courses 9 and either 5 or 6A.
Quantitative analytical methods of organic chemistry and advanced laboratory technique.

101. Organic Chemistry—Advanced Laboratory. (3) I. BRANCH
Tu W Th, 1-4.
Synthetic methods of organic chemistry. An introduction to research methods. A reading knowledge of German is required in this course.

- 102A-102B. Advanced Organic Chemistry. (3-3) Yr. STEWART, PORTER
M W F, 9. Prerequisite: courses 8 and 9, and a reading knowledge of German.
Lectures and discussions of selected topics.

110. Physical Chemistry. (3) II. M W F, 10. EASTMAN
Prerequisite: course 5 or 6A; Physics 1A-1B or 2A-2B.
Lectures and problems. Required for all later work in physical chemistry.

- 111-111H. Physical Chemistry—Laboratory. (4) Either half-year.
EASTMAN, LATIMER
M W F, 1-4, and one other hour. Prerequisite: course 110 and calculus.
Physico-chemical problems and measurements.

- 114H. Physical Chemistry—Thermodynamics. (3) I. GIBSON
M W F, 10. Prerequisite: courses 6A-6B, 110; Physics 1A-1B, 2A-2B, 3A-3B; mathematics, familiarity with differential and integral calculus.

The principles of thermodynamics, with examples of their application to chemistry.

- 116H. Physical Chemistry—Advanced. (3) II. M W F, 9. GIBSON
Prerequisite: courses 111H and 114H.

- 120-120H. Advanced Inorganic Chemistry. (3) II. BRAY
Lecture, Tu, 10; laboratory, Tu, 1-4, and one other period. Pre-requisite: course 6A-6B (5 only by special permission), and 110 which may be taken simultaneously.
Preparation and experimental study of substances, designed primarily to illustrate the factors which influence equilibrium and the speed of chemical reactions. Correlation of material by means of the periodic system.
- 121-121H. Advanced Inorganic Chemistry. (3) I. BRAY
Lecture, Tu, 10; laboratory, Tu, 1-4, and one other period. Pre-requisite: course 120 or 120H.
Continuation of course 120, including advanced qualitative analysis with some study of the rare elements.
122. Phase Rule. (2) II. Tu Th, 11. BLASDALE
Prerequisite: course 110.
The use of the Phase Rule in the treatment of a variety of chemical problems, especially those of practical interest.
124. Advanced Quantitative Analysis. (2) I. Tu Th, 9-12. BLASDALE
The theory and use of special methods of quantitative analysis.
The prerequisites for courses 140A, 140B and 141 are as follows: courses 6A-6B, 8, 9, 110, and 111.
- 140A. Technical Chemistry. (2) I. Tu Th, 8. O'NEILL
The processes employed in chemical manufacturing; installation of large scale apparatus, management, and costs.
- 140B. Chemical Technology. (2) II. Tu Th, 8. O'NEILL
Continuation of course 140A, with special reference to the chemical technology of the Pacific Coast.
141. Chemical Technology—Laboratory. (2) I. RANDALL
M F or Tu Th, 1-4.
Small scale manufacture, plant design, technical analytical control and experimental study of technical processes. The special field of work for each student will be selected.
145. Chemical Technology. (3) I. RANDALL
Lect., M, 8; lab., Tu Th, 1-4. Prerequisite: courses 110 and 111.
Lectures and laboratory exercises dealing with certain fundamental electro-chemical processes, and with the chemical, physical, and economic factors involved in electro-chemical technology. Courses 141 and 145 should be taken simultaneously if possible.
160. History of Chemistry. (2) I. Tu Th, 9. O'NEILL
Prerequisite: courses 5 or 6A-6B, 8, 110.
The development of modern chemistry.
179. Special Laboratory Work. (2-4). Either half-year. The STAFF
Prerequisite: Chemistry 100 and 110.
Students may be given an opportunity to carry on laboratory work not included in listed courses. Such work may be undertaken only under the direction of a member of the instructing staff who is willing to supervise it.

- 180H. Research Work.** (2-4). Either half-year. The STAFF
Prerequisite: Chemistry 100 and 110.

Students who have completed with high credit a satisfactory number of advanced courses may prosecute original research representing not less than 4 units of experimental work under the direction of one of the members of the instructing staff. The explicit consent of the instructor must be obtained.

- 190H. Pro-seminar in Chemistry.** See course 290. The STAFF

- 199H. Special Problems.** (2-3). Either half-year. The STAFF
Reading and conference for individual honors-students.

GRADUATE COURSES

- 280. Graduate Research.** (3-5). Either half-year. The STAFF

The laboratory is open at all times to graduate students who wish to prosecute original investigations. Such work will ordinarily be under the direction of some member of the instructing staff who will determine the credit value of the work.

- 290. Seminar.** (1 or 2). Either half-year. The STAFF

As a rule two seminars are offered in each half-year. The subjects will vary from year to year and will be announced at the beginning of each half-year. In certain cases courses 190H and 290 will be combined.

- 299. Thesis for the Master's Degree.** Either half-year. The STAFF

Research Conference.—Members of the instructing staff and students engaged in graduate research meet once a week to discuss the various investigations in progress in the laboratory. M or W, 11. No credit.

COURSES IN OTHER DEPARTMENTS

Metallurgy and Assaying. [See under Mining and Metallurgy.]

Minerals and Blowpipe Analysis. [See under Geology and Mineralogy.]

Sanitary Chemistry and Water Analysis. [See under Civil Engineering.]

Electric Discharges through Gases. [See under Physics.]

COURSES IN THE DEPARTMENT OF AGRICULTURE

Analysis of Agricultural Products. [See under Agricultural Chemistry.]

Food Analysis. [See under Nutrition.]

CIVIL ENGINEERING

CHARLES DERLETH, Jr., C.E., Professor of Civil Engineering and Dean of the College of Civil Engineering.

CHARLES G. HYDE, B.S., Professor of Sanitary Engineering.

FRANCIS S. FOOTE, Jr., E.M., Professor of Railroad Engineering.

ARTHUR C. ALVAREZ, B.S., Associate Professor of Civil Engineering.

*ADOLPHUS J. EDDY, B.S., Associate Professor of Civil Engineering.

CLEMENT T. WISKOCIL, C.E., Associate Professor of Civil Engineering.

WILFRED F. LANGELIER, M.S., Assistant Professor of Sanitary Engineering.

CHARLES C. SWAFFORD, M.S., Instructor in Civil Engineering.

CLARENCE J. NOBMAN, B.S., Instructor in Civil Engineering.

BRUCE JAMEYSON, B.S., Instructor in Civil Engineering.

GEORGE E. TROKELL, B.S., Instructor in Civil Engineering.

VALDEMAR ARNTZEN, Expert Mechanic in Civil Engineering Laboratory.

Laboratory Fees.—Five dollars a half-year for courses 1A-1B, 1E, 102; \$7.50 for 123 and 128; \$10 for 108C, 108E, 108F; and \$20 each for 3 and 103.

Honors.—Students will be recommended for honors on the basis of the quality of the work done in the regular curriculum of the senior year. Particular emphasis will be placed upon the thesis.

LOWER DIVISION COURSES

1A-1B. Plane Surveying. (3-3) Yr.

FOOTE, ALVAREZ, NOBMAN, SWAFFORD, JAMEYSON, TROKELL

In 11 sections: Secs. 1, 2, 3, M F, 8; Secs. 4, 5, M F, 9; Secs. 6, 7, 8, 9, 10, 11, Tu Th, 8. In fifteen field periods; periods 1, 2, M, 1-4; periods 3, 4, Tu, 9-12; periods 5, 6, Tu, 1-4; period 7, W, 8-11; periods 8, 9, W, 1-4; periods 10, 11, Th, 9-12; periods 12, 13, Th, 1-4; periods 14, 15, F, 1-4. Prescribed: freshman year, in the colleges of engineering. Prerequisite: plane trigonometry and geometrical drawing. Fee, \$5 each half-year.

Methods of plane surveying; field practice; calculations, and mapping.

1E. Plane Surveying. (3) II.

FOOTE, SWAFFORD

Tu Th, 11; W or Th, 1-4. Open only to students in Agriculture and Architecture. Fee, \$5. Prerequisite: plane trigonometry and geometrical drawing.

The more elementary parts of course 1A-1B briefly presented.

*Absent on leave 1920-21.

3. Summer Class in Plane Surveying. (3) II.

FOOTE, ALVAREZ, NOBMAN, SWAFFORD, JAMEYSON, TROXELL
 Fee, \$20. Prerequisite: course 1A-1B.

The course begins the day after Commencement and lasts four weeks. The summer school site is near Santa Cruz.

8. Materials of Engineering Construction. (2) II. ALVAREZ, WISKOCIL
 Sec. 1, M F, 9; Sec. 2, Tu Th, 8. Prerequisite: sophomore standing.

The structural properties and adaptability of various materials employed in engineering construction.

25. Plumbing, Heating, Ventilating and Lighting. (2) I. LANGEIER
 Tu Th, 9. Prerequisite: Physics 1A-1B, Chemistry 1A-1B, Hygiene 1, or equivalents.

For students of public health and sanitary engineering.

UPPER DIVISION COURSES

102. Railroad Surveying. (3) I. FOOTE, NOBMAN
 W F, 8; Tu, 1-4. Prerequisite: course 3. Fee, \$5.

Simple, compound, and transition curves; reconnaissance, preliminary and location surveys; calculations of earthwork and other quantities; field work, such as running in curves, etc.

102c. Railroad Engineering Office Practice. (1) II. Tu, 1-4. FOOTE
 Prerequisite: course 102.

The plotting of railroad maps and profiles; calculation of volumes of masonry and earthwork; drafting of railroad structures.

103. Summer Class in Railroad Surveying. (3) II.

FOOTE, ALVAREZ, NOBMAN, SWAFFORD, JAMEYSON, TROXELL
 Fee, \$20. Prerequisite: courses 3 and 102.

The course begins the day after Commencement and lasts four weeks. The summer school site is near Santa Cruz.

104a. Economics of Railroad Location. (3) I. M W F, 10. FOOTE
 Prerequisite: course 102.

Influence of railroad location upon profit-producing value, with particular reference to the effect of distance, curvature, and grades upon operating expenses.

104a. Railroad Construction and Maintenance. (3) II. FOOTE
 M W F, 10. Prerequisite: course 102.

Grading, tunneling, waterways, track laying; the materials and methods used in maintenance work; signaling and interlocking; yards and terminals.

105. Higher Surveying and Geodesy. (2) II. M W, 9. FOOTE
 Prerequisite: course 3; Astronomy 3 and 107.

Methods of geodetic surveying; adjustment of observations; geodetic positions; map projections.

106. Highway Engineering. (2) I. Tu Th, 11.**HYDE**

Prerequisite: course 8.

The location, design, construction, and maintenance of roads and streets; the construction and maintenance of pavements.

107A. Framed Structures. (3) II. M F, 8; Th, 1-4.

Open to students in Civil Engineering who have taken or who are taking courses 108A-108B and Mechanics 102A-102B.

The computation of stresses in roofs, building frames, and simple bridge trusses, by analytical and graphical methods.

107C-107D. Framed Structures. (3-3) Yr. Tu Th, 10; W, 1-4. DERLETH

Prerequisite: courses 107A and 108A-108B.

Continuation of course 107A. Stress computations for steel-framed structures; the design of plate girders, roof, and bridge trusses; bridge shop practice.

107E-107F. Framed Structures. For architectural students. (3-3) Yr.

Tu Th, 8; M, 1-4. Prerequisite: courses 117 and 118A-118B.

Stress computations and design of structures in wood, steel and reinforced concrete, particularly of buildings; foundations and retaining walls; structural specifications.

108A-108B. Strength of Materials. (3-2) Yr. ALVAREZ, —, WISKOCIL

Secs. 1 and 2, M W F, 9; Secs. 3 and 4, M W F, 10. Prerequisite: Mathematics 4A-4B. Mechanics 102A-102B must be taken concurrently.

The elastic and ultimate resistance of materials; stress analysis for bars, beams, columns and shafts; theory of resilience; deflections and combined stresses; elements of design for wood, steel, and reinforced concrete structures.

108C. Civil Engineering Laboratory. (2) I.**WISKOCIL**

Sec. 1, M, 1-4; Sec. 2, W, 1-4.

Prerequisite: courses 8 and 108A-108B. Fee, \$10.

Physical tests of bricks, concrete, iron, steel and wood.

108E. Civil Engineering Laboratory. (1) II.**WISKOCIL**

Sec. 1, M, 1-4; Sec. 2, F, 1-4. Prerequisite: course 8 and satisfactory standing in 108A-108B. Fee, \$10.

Physical tests of cement, concrete, mortar and aggregates for concrete.

108F. Civil Engineering Laboratory. (1) II. M, 1-4.**WISKOCIL**

Prerequisites: courses 8 and 118A-118B. Fee, \$10. For students of architecture only.

Physical tests of bricks, cement, concrete, iron, mortar.

109A. Sewerage Engineering. (2) I. M W, 8.**HYDE**

Prerequisite: course 110.

The design and construction of sewerage works.

- 109b. Sewage and Sewage Disposal. (1) I. Tu, 9. HYDE
Prerequisite: Chemistry 5 and 8, Bacteriology 1.
The chemical and biological character of sewage; its treatment and disposal.
110. Hydraulics. (3) I. Tu Th, 10; Th, 1-4. HYDE
Prerequisite: Mathematics 4A-4B. Mechanics 102A-102B must be taken concurrently.
Theory of hydraulics; application of principles; water-measuring devices; stream gauging.
- 111a. Water Supply Engineering. (2) II. Tu Th, 11. HYDE
Prerequisite: course 110.
The design and construction of water works.
- 111b. Character and Sanitation of the Water Supply. (1) II. HYDE
W, 10. Prerequisite: Chemistry 5 and 8; Bacteriology 1; Zoology 109.
Water from the aesthetic, commercial, and sanitary points of view; water purification.
113. Foundations of Structures. (2) I. Tu Th, 8. DERLETH
Prerequisite: course 108A-108B.
Ordinary foundations, footings, sheet piling, piles, coffer-dams, open caissons, the pneumatic process; deep well dredging.
114. Masonry Structures. (3) II. Tu Th, 9; W, 1-4. DERLETH
Prerequisite: courses 108A-108B and 113.
Design of typical masonry structures, such as dams, retaining walls, bridge piers, abutments, culverts, aqueducts, chimneys, stone and concrete arches, and arch bridges.
- *115. Fireproofing. (2) I. M W, 11. ALVAREZ
The resistance of building materials to fire; fire resistive and slow-burning construction; fire extinguishing equipment; corrosion and preservation of structural metal. Elective for students of civil engineering and architecture. Course 108A to be taken concurrently.
116. Engineering Contracts and Specifications. (2) II. Tu Th, 1. HYDE
Prerequisite: junior standing.
Contracts, specifications, engineering relations, principles of engineering economics.
117. Framed Structures. (3) II. M W, 9; M, 1-4. NOBMANN
Prescribed for architectural students who are taking course 118A-118B.
The computation of stresses in roofs, building frames and other structures by analytical and graphical methods.

* Not to be given, 1920-21.

- 118A-118B. Strength of Materials. (3-3) Yr. M W F, 10. _____

Prescribed for students of architecture. Prerequisite: Mathematics 4A-4B, Physics 1A-1B, Civil Engineering 8.

Elementary analytic mechanics, particularly the theory of statics; the elastic and ultimate resistance of materials; stress analysis for bars, beams and columns; theory of resilience, deflections and combined stresses. Application of statics and the theory of the elasticity and strength of structural materials to the elements of design for buildings.

- 119A-119B. Thesis for B.S. Degree. (2-2) Yr. _____

For the regulations governing thesis work see the annual Circular of Information, Academic Departments. Candidates for B.S. who elect a thesis in the department of Civil Engineering will register, during both half-years, of the last or senior year, for Civil Engineering 119. Candidates who elect their theses in other departments will register according to announcements of those departments.

Students who contemplate theses in the civil engineering laboratories should notify the department before December of the junior year.

123. Sanitary Engineering Laboratory. (3) I. _____

LANGELIER

Tu W Th, 2-5. Prerequisite: Chemistry 5, or equivalent. Fee, \$7.50. Required of sanitary engineering students, but arrangements will be made for instruction of students in other departments.

The chemical and biological examination of water and sewage, with particular reference to the analytical control of water purification and sewage treatment plants.

124. Principles of Water Supply, Sewerage, and Municipal Wastes Engineering. (3) II. M W F, 8. _____

LANGELIER

Prerequisite: junior standing. Designed primarily for students of public health.

Water supply and sewage works; purification of water; treatment of sewage and the disposal of refuse.

125. Plumbing, Heating, Ventilating and Lighting. (2) I. _____
M W, 11. Prerequisite: junior standing.

For students of home economics.

126. Applied Sanitary Science and Municipal and State Sanitation. (2)
II. Tu Th, 9. _____

HYDE

Prerequisite: Zoology 109, Bacteriology 1, Chemistry 5 and 8, and Civil Engineering 109B.

The application of the principles of sanitary science to the work of municipal and state sanitation.

NOTE.—Special arrangements will be made for students in other courses and in other departments who may desire to take this course.

128. Sanitary Engineering Laboratory. (3) II. _____

LANGELIER

Tu W Th, 2-5. Prerequisite: Chemistry 1A-1B. Fee, \$7.50.

For students of public health; may be elected by students in other departments.

The chemical and biological examination of water and sewage. Laboratory exercises and lectures on the interpretation of analyses.

GRADUATE COURSES

- *220A-220B. Framed Structures. Yr. DERLETH**
 Prerequisite: course 107C-107D.
 The design of continuous girders, swing, cantilever, suspension and metallic arch bridges, and of reinforced concrete structures. Programme of work to be arranged each year.
- *221A-221B. Theory of Resilience and Deflections. Yr. DERLETH**
 Prerequisite: course 107C-107D.
 Applications to the statically indeterminate structures. Programme of work to be arranged in each case.
- 222A-222B. Sanitary Design. Yr. HYDE**
 Individual assignments. Prerequisite: courses 109A, 109B, 110, 111A and 111B.
 The design of elements of systems for water supply, water purification, sewerage, sewage and refuse treatment and disposal, etc.
- 223. Laboratory Experiments. DERLETH, WISKOCIL**
 Programme of work to be arranged in each case. Prerequisite: courses 8, 108A-108B, 108C, and 108E.
 For advanced work in civil engineering the testing laboratory is equipped with apparatus specially designed to make tests and original studies upon the strength and elasticity of structural materials.
- *224. Harbor Engineering. (1-2) I. ALVAREZ**
 Harbor planning; design and construction of breakwaters and docks; river improvements.
- 225. Advanced Sanitary Engineering Laboratory. HYDE and LANGELIER**
 Programme of work to be arranged in each case. Prerequisite: course 123. Fee, \$2.50 per unit.
 Special laboratory problems in water, sewage, air, and refuse analysis; tests of apparatus, experimental or practical, in available localities.

* Not to be given, 1920-21.

DRAWING AND ART

*HERMANN KOWER, C.E., Professor of Drawing.

PERHAM W. NAHL, Assistant Professor of Freehand Drawing and Art Anatomy.

WILLSON J. WYTHE, B.S., Assistant Professor of Mechanical Drawing.

C. CHAPEL JUDSON, Assistant Professor of Graphic Art.

EUGEN NEUHAUS, Assistant Professor of Art Appreciation.

ROSS J. BROWER, B.S., Associate in Drawing.

DARYL B. MILLER, A.B., Associate in Drawing.

OLIVER M. WASHBURN, A.B., Associate Professor of Classical Archaeology.

MARY F. PATTERSON, Associate Professor of Design and Household Art.

M. EARL CUMMINGS, Assistant Professor of Modeling.

ENGINEERING DRAWING**PREPARATION FOR THE MAJOR**

Required: Drawing C (2 units), 3A, 3B (6), 9 (1); Graphic Art AB (2); Architecture 11 (3); Mechanics 6A (3); Civil Engineering 1E (3). Recommended: Mathematics A, C (6); and 3 AB (6).

Honors-Students in the Upper Division.—Prospective candidates for honors must have the permission of the department before undertaking upper division work, and permission will be granted only to those who have shown proficiency in the lower division work and who have passed such examinations in the elementary subjects as may be required by the department. Credit for advanced work done in other institutions will be given only upon a satisfactory test in correlated lower division subjects.

The requirement for the major is 24 units of drawing, which must normally include courses 105, 110, Architecture 101A-101B, 106A-106B, and Mechanics 106B. Candidates will be recommended for honors on the basis of the quality of the work done in the regular curriculum.

LOWER DIVISION COURSES

Course C or the high school course in geometrical drawing is prerequisite to courses 3A, 3B, and 9.

C. Instrumental Drawing. (2) Either half-year.

MILLER

Sec. 1, M F, 1-4; Sec. 2, Tu Th, 9-12; Sec. 3, Tu Th, 1-4; Sec. 4, W, 1-4, S, 9-12.

Use of instruments; solving of geometrical problems; construction of mathematical curves; lettering; technical drawings.

* Absent on leave, 1920-21.

- 3A. Descriptive Geometry. (2) I. M F, 1-4. WYTHE
 Courses 3A, 3B and 3C are intended for students in architecture, candidates for teachers' recommendations, and honor-students. Problems dealing with points, lines and planes.
- 3B. Descriptive Geometry. (2) II. M F, 1-4. WYTHE
 Prerequisite: course 3A.
 Problems dealing with solids, warped and irregular surfaces.
- 3C. Descriptive Geometry. (2) I. Tu Th, 1-4. WYTHE
 Prerequisite: course 3B, or course 3D.
 Problems dealing with shades, shadows and perspective.
- 3D. Descriptive Geometry. (3) Either half-year. BROWER
 Drafting and lectures. Sec. 1, M F, 1-4; Sec. 2, Tu Th, 9-12; Sec. 3, Tu Th, 1-4. One lecture hour per week to be arranged.
 For students in engineering.
8. Freehand Line Lettering. (1) Either half-year. MILLER
 Sec. 1, M, 1-4; Sec. 2, Tu, 9-12; Sec. 3, Tu, 1-4; Sec. 4, W, 1-4.
 Single stroke letters; construction of titles.
9. Lettering. (1) Either half-year. WYTHE, MILLER
 Sec. 1, Tu, 1-4; Sec. 2, F, 1-4.
 Freehand and instrumental; alphabets; construction of titles.
10. Advanced Lettering. (1) II.

UPPER DIVISION COURSES

105. Graphostatics. (2) II. Sec. 1, W, 2-4; Sec. 2, F, 2-4. WYTHE
 Prerequisite: Civil Engineering 108A and Physics 105A or Mechanics 102A.
 Graphic analysis of stresses in engineering structures.
110. Stereotomy. (2) I. M F, 1-4. WYTHE
 Continuation of course 3, intended for students of architecture.
- 300A-300B. Teachers' Training Course. (1-1) Yr. Th, 4. WYTHE
 Teacher training course in mechanical drawing. Various courses in secondary schools; methods of teaching; examination of textbooks; visiting schools; drawing with criticism.

GRADUATE COURSE

- 224A-224B. Seminar in Mechanical Drawing. WYTHE, BROWER
 Advanced work in mechanical drawing for graduate students.

GRAPHIC ART

PREPARATION FOR THE MAJOR

Required: Graphic Art AB (2), 1A-1B (6), 6A-6B (6), 14 (2); Engineering Drawing C (2), 9 (1).

Honors-Students in the Upper Division.—Prospective candidates for honors must have the permission of the department before undertaking upper division work, and permission will be granted only to those who have shown proficiency in the lower division work and who have passed such examinations in the elementary subjects as may be required by the department. Credit for advanced work done in other institutions will be given only upon a satisfactory test in correlated lower division subjects. Courses AB, 1A-1B, 6A-6B, 14 and Engineering Drawing C and 9 are normally prerequisite to honors-work in the upper division. The requirement of 24 units in upper division courses must normally include courses 114A-114B, 115A-115B, 116A-116B or 127, 128A-128B. Candidates of marked ability who have taken 24 units of varied upper division work with excellent results will be recommended for honors. A command of scientific and artistic perspective, creative ability in design as well as in color, and a thorough knowledge of art anatomy will be regarded as essential.

LOWER DIVISION COURSES

AB. Elementary Freehand Drawing. (2) Either half-year. —
Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4; Sec. 3, W, 1-4, S, 9-12.

Fundamental principles of freehand drawing, embracing the study of light and shade and perspective; drawing from memory; lectures. Equivalent to the high school course in freehand drawing.

1A-1B (or 1C). History of Art. (3-3) Yr. WASHBURN, NEUHAUS
M W F, 4.

Lectures on the development of art in the western world from the palaeolithic age to the present century.

1A. The art of Egypt, Mesopotamia, Greece, and Rome and of the early Christian and Byzantine periods.

1B. The art of the Renaissance and modern periods in Europe, alternating with

1C. Which deals with the development of the fine arts, particularly painting, in our own country.

Sections will be provided for class study.

6A-6B. Theory of Design and Color. (3-3) Yr. PATTERSON
Lectures and laboratory, M W, 1-4. Prerequisite: Graphic Art AB and Drawing C.

The study of the underlying principles of design based on the laws of force or growth in nature and expressed through the medium of tones, measures and shapes in orderly repetitions of balance, sequence and harmony; analysis of historic examples; original problems illustrating the theory as applied in the general field of design; outside work required.

12. **Elementary Design Practice.** (2) Either half-year. —
 Tu Th, 1-4. Prerequisite: Graphic Art 6A-6B. Laboratory fee, \$1.50.
 The application of the principles of the theory of design and color to elementary problems of original design, study of order in nature and historic art; analysis of the principles underlying both and of the technical processes by which they may be expressed. Field work: visits to zoological, anthropological and fine arts collections.
14. **Advanced Freehand Drawing.** (2) Either half-year. JUDSON
 Sec. 1, Tu Th, 9-12; Sec. 2, Tu Th, 1-4; Sec. 3, Tu Th, 9-12; Sec. 4, Tu Th, 1-4.
 A study of proportion, light and shade.
19. **Appreciation of Art.** (2) Either half-year. M F, 1. NEUHAUS
 Lectures on the principles which underlie the theory and practice of the fine arts.

UPPER DIVISION COURSES

- 101A-101B. **Modeling of the Human Figure.** (1-1) Yr. CUMMINGS
 F, 8-11. Prerequisite: Architecture 14A-14B.
- 114A-114B. **Advanced Work in Freehand Drawing.** (2-2) Yr.
 Sec. 1, Tu Th, 9-12; Sec. 2, Tu Th, 1-4. JUDSON, —
 A study of the antique.
- 115A-115B. **Drawing from Costumed Model; Composition.** (2-2) Yr.
 W S, 9-12. JUDSON
- 116A-116B. **Still-Life Painting.** (2-2) Yr. M F, 9-12. JUDSON
127. **Art Anatomy.** (2) I. M F, 4. NAHL
 Academic laws of proportion and cross-sections.
- 128A-128B. **Life Class.** (2-2) Yr. NAHL
 Sec. 1, Tu Th, 9-12; Sec. 2, M F, 9-12. Fee, \$5 each half-year.
- 167A-167B. **Form and Color.** (3-3) Yr. M F, 9-12. NEUHAUS
 Beginning either in August or in January. Prerequisite: courses AB, 14.
 Practical problems in pictorial analysis; occasional lectures, class problems and papers.
168. **Community Art.** (3) I. M W F, 4. NEUHAUS
 Prerequisite: senior standing.
 Discussion of the aesthetic problems of community life. The promotion of artistic appreciation through the fine and applied arts.
- 194A-194B. **Advanced design.** (2-2) Yr. W F, 1-4. —
 Laboratory fee, \$1.50, covers use of equipment, dyes, wax, etc. Materials for individual projects to be furnished by students. Prerequisite: Graphic Art 12. Recommended: Household Art 193A-193B to be taken concurrently, also Graphic Art 127 and 128A-128B.
 The application of the principles of design and color to advanced problems, with renderings in several mediums. Experimentation in materials with dyes and dye resists.

198A-198B. Pro-seminar in Japanese Art. (1-1) Yr. S, 9-12. NAHL

199. Pro-seminar in Graphic Art. (1 or 2) Either half-year.

JUDSON, NAHL

According to the interests and requirements of the students.

GRADUATE COURSES

215A-215B. Advanced Composition. (2-2) Yr. W S, 9-12. JUDSON

216A-216B. Advanced Painting. (2-2) Yr. M F, 9-12. JUDSON

228A-228B. Continuation of Course 128A-128B. (2-2) Yr. NAHL
 Sec. 1, Tu Th, 9-12; Sec. 2, M F, 9-12. Fee, \$5 each half-year.

269. Seminar in Graphic Art. (1 or 2) Either half-year. JUDSON, NAHL

299. Thesis Course. (2-2) Either half-year. JUDSON, NAHL

300. Teachers' Training Course. (2) I. M F, 3. NAHL

ECONOMICS

CARL C. PLEHN, Ph.D., LL.D., Professor of Finance on the Flood Foundation.

HENRY R. HATFIELD, Ph.D., Professor of Accounting on the Flood Foundation; Dean of the College of Commerce.

STUART DAGGETT, Ph.D., Professor of Railway Economics on the Flood Foundation.

JESSICA B. PEIXOTTO, Ph.D., Professor of Social Economics.

IRA B. CROSS, Ph.D., Professor of Economics on the Flood Foundation.

LUCY W. STEBBINS, A.B., Associate Professor of Social Economics.

SOLOMON BLUM, Ph.D., Associate Professor of Economics.

— — —, Associate Professor of Commerce.

WILLIAM LESLIE, B.S., Assistant Professor of Insurance.

WILLIAM KIRK, Ph.D., Assistant Professor of Social Economics.

ELBERT A. KINCAID, M.A., Instructor in Economics.

FELIX FLÜGEL, M.A., Instructor in Economics.

JOHN B. WASHBURN, A.B., Associate in Accounting.

CAROLINE SCHLEEF, A.B., Associate in Social Economics.

RUTH MOODY, Assistant in Economics.

JOHN F. FORBES, C.P.A., Lecturer in Accounting.

CHARLES C. STAEBLING, M.S., C.P.A., Lecturer in Accounting.

ROBERT HUNTER, A.B., Lecturer in Economics.

BARBARA N. GRIMES, A.B., J.D., Lecturer in Law and Social Economics.

— — —, Lecturer in Banking.

WARNER BROWN, Ph.D., Associate Professor of Psychology.

FRANCES M. GREENE, M.D., Supervisor of Practice Work.

Facilities for Graduate Study.—The University Library is well equipped with works on economics subjects, and in particular with official statistical publications of the chief commercial countries of the world. These materials, with the official trade documents of the San Francisco Customs House, afford opportunity for the study of the trade, resources, and economic geography of particular countries and ports. The unique collection of local materials in the Bancroft Library is available for research in the economic history of the Pacific Coast. A collection of state reports and documents on public finance, complete for the last fifteen years, and in some instances extending over a longer period, may be consulted in the private library of Professor Plehn.

Special facilities also exist at Berkeley for the study of economic problems at first hand. San Francisco is the banking center of the Coast. It is also the terminus of three great railways and a center of Pacific Ocean trade. The distance of California from the Middle West has given

great importance to questions of transportation, and rate questions are subjects of constant interest. Mention may also be made of the completeness of labor organization in some parts of California and of its absence in others, of problems of seasonal labor, of the presence of oil fields, irrigation plants, lumbering on a large scale, experiments in co-operation, and the like.

To those interested in social work the high level of income in San Francisco and the importance of preventive or constructive charity also affords matter for investigation.

The course prerequisite to advanced work in the Department of Economics is Economics 1A-1B. A reading knowledge of French and German is eminently desirable, and will ordinarily be required of students in the College of Commerce and of honors-students in economics.

Honors-Students in the Upper Division.—Students in the College of Letters and Science may receive honors in economics at graduation either:

1. Upon the intelligent completion of a course of reading in some general field; or

2. Upon the basis of a thesis showing ability to do original work.

In either case, candidates for honors must prepare a programme at the beginning of their candidacy in consultation with a committee of the department appointed to supervise their work. On approval of this plan of study, the student will proceed to its completion in close co-operation with his committee, attending conferences and making such reports of progress as may be asked for. Students are advised against too narrow specialization. In most cases, the junior year will be spent in preliminary reading. In the senior year, those students who desire to take honors on the basis of reading alone will make that reading more intensive, and will prepare for a final oral examination in which their attainment will be tested; while those who desire to engage in research will prepare a thesis embodying their results. The honors thesis should not show mere industry or mere ability to solve a technical problem, but should also show ability to handle source material and to draw conclusions therefrom.

Honors-students will be allowed much freedom in their studies. To justify this, the work which they do must be consistently of high quality. The department will recommend the exclusion from the honors-group of all students who do not maintain each half-year an average of at least 60 per cent of first and second grades in all their courses and who do not complete their courses in economics with high credit.

All senior students will enroll in course 199A-199B. Juniors, subject to the approval of the department committee on honors, will either enroll in course 198A-198B or be assigned to various courses in economics as their individual needs may require.

Candidates must fulfill the requirements for a major in economics and must include therein at least one course each in advanced theory, economic history and statistics, together with one of the following courses: History 4A-4B, History 8A-8B, Political Science 1A-1B. Honors-students in the College of Commerce may omit the course in advanced theory.

Master's Degree.—Candidates for the master's degree with a major in economics must include in their programme of study a course in advanced economic theory and a course in economic history. The proposed programme must be submitted to the department for approval.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy are expected to make themselves generally familiar with the fields

of economic theory, the history of economic theory, and economic history, and with a certain number of subjects in applied economics to be selected in consultation with the department. They are advised to include in their programme a course in statistical methods. Candidates will select some field for special study and will write the usual thesis.

Candidates for the degree of Doctor of Philosophy in other departments who desire to take a minor in economics are required to pursue a course of study to be approved by the department, which should embrace, besides fundamental courses in economic theory, such further work in economics as may properly relate itself to the candidate's major subject.

Course Groups.—The courses offered by the department are divided into four groups. Group A consists of all the lower division subjects, open to students regardless of their colleges or their standing in the university. Group B is made up of the introductory courses in the more specialized fields which are open to students who have completed Economics 1A-1B. Courses in Group C may be taken only by specially qualified students (instructor's consent required) and by graduate students who have had the necessary preliminary training. Group D, comprising the more professional courses, is open only to students registered in the College of Commerce.

GROUP A

LOWER DIVISION COURSES

1A-1B. Principles of Economics. (4-4) Yr. CROSS and the STAFF
Lectures, Tu Th, 9, and recitation sections, two hours. Fee, \$1 per half-year. Prerequisite: at least sophomore standing. Required for upper division work in the department.

3A. Introduction to Economic Geography. (3) II. KINCAID
M W F, 10. Prerequisite: Geography 1A. Book fee, \$1.

10. Economic and Commercial History. (3) Either half-year. FLÜGEL
M W F, 9.

A general survey of some of the more important events in the economic history of Europe.

11. Industrial History of the United States. (3) Either half-year.
M W F, 2. FLÜGEL

A discussion of economic conditions in the United States from 1789 to date.

14A-14B. Principles of Accounting. (3-3) Yr. HATFIELD, WASHBURN
Lectures, Tu Th, 8, and laboratory sections. Prerequisite: at least sophomore standing. Students enrolling in this course may take an extra laboratory period each half-year with one additional unit credit.

26. Agricultural Economics. (3) I. Tu Th S, 11. KINCAID

The economic principles involved in the determination of land values, interest on the farmer's capital, wages of farm labor, and profits in agriculture; economic aspects of tenantry; price making forces in the agricultural industry; the farmer in his business relations. Enrollment limited to students in the College of Agriculture and such others as have the permission of the instructor.

NOTE.—Credit as Economics will be given if desired for Social Institutions 1, Teggart.

GROUP B

UPPER DIVISION COURSES

Open to all who have had Economics 1A-1B.

- *100. Economic Theory. (3) I. M W F, 9.

An intermediate course in theory.

- *105. Advanced Economics.

An introduction to modern mathematical and statistical economic theory.

- *112. The Trust Problem. (3) II. M W F, 9.

FLÜGEL

The rise and development of the modern industrial system with special reference to the trust problem.

- *120. Business Organization and Administration. (3) I. Tu Th S, 9.

A survey of the problems that arise in production, sale and distribution of the product.

- 130-131. American Financial Policy and Public Finance. (2-2) Yr.

Tu Th, 11.

PLEHN

History of currency, banking, taxation and government finance, with special reference to the principles and practice of taxation.

135. Elements of Money, Banking, and Foreign Exchange. (3) I. CROSS
Tu Th S, 10.

140. Elementary Statistics. (4) I.

LESLIE

Tu Th, 2, and laboratory periods.

An introduction to statistical method. A knowledge of higher mathematical analysis is not required.

143. Economics of Insurance. (3) I. M W F, 8.

LESLIE

An elementary course in the principles of insurance. Mathematical treatment will be avoided, so far as possible.

150. Labor Economics. (3) I. M W F, 8.

BLUM

Book fee, \$1.

The history and problems of the labor movement, and the development of labor legislation.

173. Railway Economics. (3) I. M W F, 2.

DAGGETT

A general discussion of railway history, rates, finances, and regulation.

180. The Control of Poverty. (3) I. M W F, 2.

PEIXOTTO

Studies in the facts and causes of poverty and of public and private action to prevent destitution.

See also: Child Hygiene, Hygiene 101; General Biology, Zoology 10; Eugenics, Zoology 115; Abnormal Psychology, Philosophy 142A-142B, 143A-143B.

* Not to be given, 1920-1921.

181. Care of Dependents. (3) II. M W F, 2. STEBBINS
The problems of outdoor and institutional care of the dependent and defective classes. Lectures, reports, and field work.
185. Introduction to Field Work. (1) I. SCHLEEF
Laboratory training for field studies. Open only to students registered in Economics 180.
- NOTE—Credit as Economics will be given for Social Institutions 101A-101B.

GROUP C

UPPER DIVISION AND GRADUATE COURSES

Open only to graduates and specially qualified undergraduates.

UPPER DIVISION COURSES

101. History of Economic Thought. (2) II. Tu Th, 10. PLEHN
A review of economic thought to 1900.
102. Types of Economic Theory. (2) II. Tu Th, 9. BLUM
A critical examination of some of the leading types of economic theory. In 1920-21 the writings of Veblen and Hobson will be considered.
106. Contemporary Theories of Social Reform. (3) II. PEIXOTTO
M W F, 3.
A critical and intensive examination of the nature and history of the leading reform movements of the day.
See also: Philosophies of Social Relations, Philosophy 45A-45B.
107. Critical Study of European Revolutionary Tendencies. (2) II. HUNTER
Th, 7:30-9:30 p.m. Prerequisite: course 106.
142. Advanced Statistics. (3) II. Tu Th, 9, and laboratory. LESLIE
Prerequisite: course 140.
Probability, the theory of error, and the foundations of statistical theory; non-linear regression; multiple correlation.
- 149A. Record Keeping and Field Studies. (3) I. PEIXOTTO, SCHLEEF
W, 1, and laboratory.
Making record forms; map making; tabulating; framing tables; collecting and interpreting data.
- 149B. Advanced Record Keeping and Field Studies. (3) II. PEIXOTTO, SCHLEEF
W, 1.
146. Social Insurance. (3) II. Tu Th S, 8. GRIMES
Health, unemployment, workmen's compensation, industrial and old age insurance.
151. Labor Organizations. (2) II. F, 4-6. BLUM
The history, structure, and activities of labor organizations.

152. **Advanced Labor Economics.** (2) I. F, 4-6. **BLUM**
Prerequisite: course 150 or 151.
153. **Employment Management.** (2) II. Tu Th, 3.
An analysis of profit-sharing, welfare work, employment management methods, etc.
- *182. **Studies in the Standard of Living.** (3) I. M W F, 3. **PEIXOTTO**
The theory and practice of spending in the several social classes. Field studies.
- *183. **Crime as a Social Problem.** (3) II. M W F, 3. **PEIXOTTO**
184. **Principles of Case Work.** (2) I. Tu, 4-6, **STEBBINS**
Theory and practice of family case work.
188. **Housing.** (3) II. M W F, 3. **SCHLEEF**
Problems of housing and their relation to public welfare. Detailed study of housing laws and their enforcement with special reference to California. Open only to seniors and graduates.

HONORS COURSES

- 198A-198B. **Honors Course for Juniors.** Yr. **The STAFF**
- 199A-199B. **Honors Course for Seniors.** Yr. **The STAFF**

GRADUATE COURSES

- Conference in Economics.** **DAGGETT**
The graduate students and faculty of the department will meet from time to time at the call of the chairman to discuss the finished results of research prepared by candidates for higher degrees. No credit in units is given for this course, and students will not register for it.
- 200A-200B. **Economic Theory and Finance.** (2-2) Yr. W, 3-5. **PLEHN**
- 202A-202B. **Advanced Studies in Social Economics.** (3-3) Yr. **PEIXOTTO**
W, 7:30-9:30 p.m., and additional hours to be arranged.
Research in problems of social economics.
- 203A-203B. **Advanced Studies in Social Economics.** (3-3) Yr. **PEIXOTTO, BLUM, KIRK**
Field work in connection with courses 202A-202B, 205A-205B.
- 205A-205B. **Seminar in Labor Economics.** (2-2) Yr. **BLUM**
Th, 7:30-9:30 p.m. Prerequisite: course 150 or 151.
- 206A-206B. **Seminar in Transportation.** (2-2) Yr. **DAGGETT**

* Not to be given, 1920-21.

208A-208B. Family Case Work. (3-3) Yr.**KIRK, GREENE**

Practice work for graduates. Students give three or more half-days weekly as volunteer members of staff in the offices of state commissions, private charities, juvenile courts, or kindred agencies.

299. Thesis for the Master's Degree.**The STAFF**

NOTE—Credit as Economics will be given for Social Institutions 201, Teggart.

GROUP D

The following courses are open only to students registered in the College of Commerce.

*Business Organization and Management****121. Factors of Industrial Efficiency. (3) I. Tu Th S, 11.**

Modern competitive production; scientific management, etc.

***122. Office Organization, Administration and Procedure. (2) II.**

Tu Th, 2.

A detailed study of the problems which arise in the organization, administration, and procedure of the business office.

123. Markets and Marketing. (3) II. Tu Th S, 11.**KINCAID**

An analysis of the distributive system for food products. The relations of producers, middle men and consumers. Costs of distribution and prices. Exchanges, speculation, futures; cold storage, transportation, municipal markets. This course affords a foundation for courses in rural institutions.

124. Merchandising Methods. (2) I. M W F, 10.**KINCAID**

Book fee, fifty cents.

The methods of marketing and merchandising selected products of a representative character such as wool, woolen goods, cotton goods, clothing, shoes, etc. Relations of manufacturers, jobbers and retailers; chain stores, department stores and mail-order houses.

125. Advertising. (2) II. Tu, 7:30 p.m.**BROWN**

The principles governing the choice of media and the methods of appeal, the amount and nature of the matter, with emphasis upon experimental methods of measuring the effectiveness of advertising. The relation of advertising to marketing. Lectures, investigations and criticism of advertisements.

***141. Statistics in the Service of Business. (3) I.**

M W, 11, and laboratory. Prerequisite: course 140.

Accounting

Course 14A-14B is prerequisite to the following: courses 160, 162, 164A-164B, 167, 168, 169.

* Not to be given, 1920-21.

- 160A. Analysis of Corporation Accounts and Reports. (3) I. HATFIELD
M W F, 8.
- 160B. Accounting Systems. (2) II. Tu Th, 8. WASHBURN
Prerequisite: course 14A-14B.
161. Cost Accounting. (2) II. W, 7:30-9:30 p.m. FORBES
Open to advanced students on consent of instructor.
162. Auditing. (2) I. W, 7:30-9:30 p.m. FORBES
- 163A-163B. Advanced Accounting Problems. (2) Yr. HATFIELD
M W, 11.
Open to advanced students on consent of instructor.
- *164A-164B. Public Utility Accounts. (1-1) Yr. Th, 8. FORBES
- 165A-165B. Governmental Accounts. (1-1) Yr. Th, 8. FORBES
167. Partnership Accounting. (2) I. Tu Th, 8. WASHBURN
- *168. Fiduciary Accounting. (2) II. Tu, 7:30 p. m.
169. Income Tax Procedure. (2-2) Yr. Tu, 7:30 p.m. STAHLING

Finance

Course 135 is prerequisite to courses 136 and 137A-137B.

- *133. Corporation Finance and Investments. (3) II. HATFIELD
M W F, 8.
- *134. Investments. (2) II. Tu Th, 3. HATFIELD
136. Foreign Exchange. (3) II. Tu Th S, 10. CROSS
- 137A-137B. Advanced Money and Banking. (2-2) Yr. Tu, 4-6. CROSS
138. The Federal Reserve System. (2) II. Th, 7:30-9:30 p.m. TUCKER

Insurance

Course 143 is prerequisite to courses 144 and 145.

NOTE.—Students who wish to prepare themselves for actuarial work should confer with the instructor concerning the best choice of their mathematical courses.

144. Life Insurance. (3) I. Tu Th S, 8. LESLIE
History of life insurance; forms of company organization and management; surplus; taxation. Mathematical treatment will be avoided.
145. Property Insurance. (3) II. M W F, 8. LESLIE
Fire, marine, burglary, automobile, plate glass, boiler, flywheel, etc.

* Not to be given, 1920-21.

147. **Special Problems in Social Insurance.** (3) II. Tu Th S, 8. —
 Limited to a small number of students whose records indicate ability to do advanced work. The consent of the instructor must be obtained before enrollment.
- *148A-148B. **Actuarial Science.** (3-3) Yr. M W F, 8. **LESLIE**
 The mathematical theory of insurance. The consent of the instructor must be obtained before enrollment.

Transportation and Foreign Trade

Course 173 is prerequisite to courses 174 and 175.

- *170. **Staple Commodities of World Trade.** (3) II. **KINCAID**
 M W F, 10.
 A study of the leading commodities of world trade with reference to the extent of production and prominence in world trade and the characteristics which give them this prominence.
- *171. **Geography of International Trade.** (3) I. M W F, 10. **KINCAID**
 In 1921-22 this course will deal with the economic geography of countries on the Pacific Ocean, particularly with reference to the geographic characteristics of those countries in so far as they relate to products which enter into international trade.
- *174. **Railway Traffic.** (3) II. M W F, 3. **DAGGETT**
 Railway organization, forms, accounts, rates and rate construction.
175. **Railroad Regulation.** (3) II. M W F, 3. **DAGGETT**
 Mainly concerned with the Interstate Commerce Act.
178. **International Trade.** (3) I. M W F, 3. **DAGGETT**
179. **Ocean Transportation.** (3) II. M W F, 2. **DAGGETT**

GRADUATE COURSE

- 207A-207B. **Seminar in Accounting Problems.** (2-2) Yr. **HATFIELD**

COURSES IN OTHER DEPARTMENTS

Japan and Her Makers [Oriental Languages, 109A-109B].
Commerce and Industry in Japan [Oriental Languages 121A-121B].
Social and Economic Conditions of China [Oriental Languages 128A-128B].
Commerce and Industry in Russia [Slavic Languages 50].
History of Hispanic America from 1808 [History 162A-162B].
History of Mexico [166A-166B].
Principles of International Law [Jurisprudence 103A-103B].
Admiralty [Jurisprudence 244].
Construction and Operation of Ships [Marine Engineering 106A].

* Not to be given, 1920-21.

EDUCATION*Department Staff*

- ALEXIS F. LANGE, Ph.D., Professor of the Theory and Practice of Education and Director of the School of Education.
 RICHARD G. BOONE, Ph.D., Professor of Education.
 †WILLIAM W. KEMP, Ph. D., Professor of School Administration.
 CHARLES E. RUGH, M.L., Professor of Education.
 ROBERT J. LEONARD, Ph.D., Professor of Vocational Education and Director of the Division of Vocational Education.
 CYRUS D. MEAD, Ph.D., Associate Professor of Elementary Education.
 J. V. BREITWIESER, Ph.D., Associate Professor of Education.
 W. SCOTT THOMAS, A.B., Assistant Professor of Education.
 RICHARD S. FRENCH, Ph.D., Assistant Professor of Education.
 JOHN S. BOLIN, M.A., Associate in Education.
 HARVEY L. EBY, A.B., Teaching Fellow in Rural Education.
 LEROY E. COWLES, M.A., Teaching Fellow in Vocational Education.

Supervisors of Student Teachers in the University High School

- EDNA W. BAILEY, Ph.D., Supervisor of the Teaching of Science.
 EMMA J. BRECK, Ph.B., Supervisor of the Teaching of English.
 HIRAM W. EDWARDS, Ph.D., Supervisor of Physical Sciences.
 FLORENCE LAGANKE, Supervisor of the Teaching of Household Economics.
 JULIETTE LEVY, B.L., Supervisor of the Teaching of Modern Languages.
 LOUISE PATTERSON, A.B., Supervisor of the Teaching of Physical Education.
 SAIDEE STURTEVANT, M.A., Supervisor of Girls' Activities.

Fees.—A book fee of \$1.50 will be charged in the following courses: 101, 121, 126, 141, 143, 200, 319, and 320.

PREPARATION FOR THE MAJOR

Required: junior standing or junior college diploma.

LOWER DIVISION COURSE

- *11. Education and Culture. (1) I. M, 4. BOLIN
 Stereopticon lectures on the evolution of educational thought and practice.

UPPER DIVISION COURSES*History of Education*

101. The History of Education: General Course. (3) Either half-year.
FRENCH, BOLIN
 I, four sections: Sec. 1 (French), M W F, 8; Secs. 2, 3 (Bolin), M W F, 10, 3; Sec. 4 (Bolin), M W Th, 11. II, three sections, hours to be arranged.

The development of educational thought and practice viewed as a phase of social progress.

† Absent on leave, 1920-21.

* Not to be given, 1920-21.

102. *The History of American Education.* (2) Either half-year.
 I, Sec. 1 (Boone), M W F, 8; Sec. 2 (Eby), M W F, 3. **BOONE, EBY**
 II, hours to be arranged.
 A historical study of the leading ideas and ideals of American education and of the institutions in which they have been embodied.
103. *The History of Elementary Education.* (3) I. M W F, 9. **MEAD**
 With emphasis on the work of Rousseau, Pestalozzi, Herbart, Froebel, and more recent educators.
104. *History of Vocational Education.* (2) I. Tu Th, 3. —
 Prerequisite: course 101, or 102, or 103.

Theory of Education

111. *The Period of Adolescence.* (3) I. M W F, 3. **BREITWIESER**
 A study of the mental and physical states during the adolescent period in their relation to secondary education.
112. *Psychological Aspects of Education.* (3) I. **BREITWIESER**
 M W F, 2.
 A study of biological and psychological laws in their application to education.
113. *Social Aspects of Education.* (3) II. M W F, 2. **BREITWIESER**
 The application of social psychology to education. The aims and purposes of the individual in society and educational groups.
120. *The Theory of Education.* (3) Either half-year. **LANGE**
 I, M W F, 8; II, M W F, 9.
 A study of fundamental principles, processes, and methods, with special reference to national culture and ideals.
121. *The Principles of Secondary Education.* (3) Either half-year.
BOONE, FRENCH, BREITWIESER
 I, three sections: Sec. 1 (Boone), M W F, 10; Sec. 2 (French) M W F, 4; Sec. 3 (—), M W F, 3.
 A study of the theoretical and the broader practical aspects of the secondary state of education, with special reference to the American high school system.
122. *The High School.* (2) I. **THOMAS**
 Three sections: M W F, 2, 3, 4.
 A study of the concrete problems of the high school, with reference to questions of aims, curriculum, instruction, and management.
123. *The Principles of Elementary Education.* (3) Either half-year.
MEAD
 For students preparing for elementary school service, or secondary certification, and for normal school graduates who wish to take advanced work in the field of elementary education.
124. *Moral Education.* (2) II. Tu Th, 3. **ROUGH**
 The moral life as a personal response to the social order. The school as a means of moral education.

125. Problems of Moral Education. (2) Either half-year. RUGH
 Tu, 4-6.
 Special study of training for citizenship in a democracy. Admission only on consultation with instructor.
126. An Introduction to the Study of Atypical Children. (2) I. FRENCH
 Tu, 4-6.
 A study of the social and psychological problems involved in the teaching of the deaf, the blind, the mentally subnormal and specially "gifted" children. Individual problems assigned. Admission only on consultation with the instructor. Method that of pro-seminar.
127. Psychology of High School Subjects. (2) I. BREITWIESER
 Tu Th, 2.

School Organization and Administration

Course 141 or teaching and administrative experience is prerequisite to courses 142 and 143.

140. School Systems. (3) I. Tu Th, 10; S, 8. THOMAS
 The development and present status of typical European systems of education, particularly those of Germany, France, and England.
141. The Administration of Public Education. (2) Either half-year. —
 M W, 3.
142. Contemporary Movements in Education. (2) I. —
 Th, 7:30-9:30 p.m.
 A survey of educational discussion and practice, touching on urgent administrative problems of the day. Designed primarily for advanced students with teaching experience who desire to prepare for the administrative side of school work.
143. Problems in the Administration and Supervision of Schools Based on School Surveys. (2) II. Tu, 7:30-9:30 p.m. —
 Designed primarily for advanced students with teaching experience who desire to prepare for the administrative side of school work.
144. Rural School Organization and Administration. (2) I. EBY
 Tu Th, 3.
 A survey of the several types or units of rural school organization, and of the problems of rural school administration, with special reference to a more complete adjustment of the rural schools to rural needs. Designed particularly for those who are looking forward to rural school administration. Open to seniors and graduates who have had a course in the history of education and in the theory of education.
145. Rural School Supervision. (2) II. Tu Th, 3. EBY
 A study of the specific problems of rural school supervision and the means and methods of such supervision. Designed for those who are preparing for rural school supervision. Open to seniors and graduates who have completed courses in the history of education and in the theory of education.

146. **The Intermediate (Junior High) School.** (2) II. M W, 11. MEAD
The development of the movement and the specialization of work for the intermediate school.
- *147. **The American University-College.** (2) II. LANGE
The evolution, character, and function of the American university as an organ of the body politic; its organization in the light of its inherent purposes; curricula and instruction; the meaning of academic citizenship; relation of student activities to university aims; progressive policies; the Junior College movement. Lectures, discussions, debates.
- *148. **The Organization and Administration of Special Institutions for "Defective" Classes.** (2) II. Tu, 4-6. FRENCH
Admission only on consultation with the instructor.

Vocational Education

160. **Vocational Education.** (3) Either half-year. M W F, 8. COWLES
The history, meaning, and organization of vocational education; state and federal legislation, including the Smith-Hughes act; development of state systems and principles underlying education for industry, commerce, agriculture, women's occupations and home economics. Admission only on consultation with the instructor.
161. **Problems in Vocational Education.** (2) Either half-year. Tu Th, 4. LEONARD
Consideration of special problems including legislation, part-time and continuation schools, evening schools, and the organization of courses of study for industrial, commercial, agricultural, and household occupations. During the second semester special consideration will be given to junior high school problems.
162. **Introduction to Research in Vocational Education.** (2) Either half-year. Tu, 4-6. COWLES
Review of occupational studies and vocational surveys giving critical attention to methods employed and organization and interpretation of data. Special study.
163. **Content and Technique for Supplemental Subject Teachers.** (2) Either half-year. S, 10-12. JACOBS
This course is designed for teachers in the field as well as for university students. It is intended for those who are preparing to teach in a trade or industrial school subjects which are supplemental to the trades and industries. Such subjects include English, mathematics, science, drawing, hygiene, civics, history, design, and textiles. A study of the methods of teaching, classroom management, schemes of correlation and methods of determining appropriate subject matter for trade and industrial classes. Required of candidates for the recommendation for the special teaching certificate issued by the State Board of Education qualifying one as a teacher of Smith-Hughes Vocational Education subjects.

* Not to be given, 1920-21.

- 164A. Advanced Industrial Practice. (4) I. S, 1-5. JACOBS
 164B. Advanced Industrial Practice. (4) II. S, 1-5. JACOBS
 Continuation of 164A. Open only to students who have qualified or
 are qualifying in courses 163 or 164A, or their equivalents.
 165. Commercial Education in Secondary Schools. Either half-year.
 M W F, 9.

Pro-Seminar

199. Pro-Seminar. Research Method in Education. (2) Either half-year.
 Tu Th, 11. LANGE
 Prerequisite: at least two of the preceding courses. Admission only
 on consultation with the instructor. In lieu of this course students
 may offer Education 125, or 126, or 143, or 161, or 162, or 302.
 Principles and processes of interpretation and explanation; types
 and criteria of procedure; adequate exposition; the scientific mono-
 graph. The emphasis of the course falls on training in scholarly
 application.

GRADUATE COURSES

Research Courses

200. Educational Seminar. (2) Either half-year. LANGE
 M, 7:30-9:30 p.m.
 Topics change from year to year. Admission only on consultation
 with the instructor.
 201. Public Administration of School Systems, Seminar. (2) Either half-
 year. M, 7:30-9:30 p.m.
 Admission only on consultation with the instructor.
 202. Seminar in Vocational Education. (2) Either half-year. LEONARD
 Sec. 1, topics of interest to those enrolled, W, 4-6; Sec. 2, topic,
 "Compulsory Part-Time Education," F, 7:30-9:30 p.m.
 Admission only on consultation with the instructor.
 203. Research Course in the History of Education. (2) II. —
 204. Society and Education. (2) I. —
 Social phases of education, including an intensive study of one or
 more of the great treatises on the subject of education from the social
 viewpoint. The particular author to be studied will be selected after
 consultation with the class.
 205. School Organization. (2) II. Th, 7:30-9:30 p.m. LANGE
 The parts of the state school system and their articulation, with
 special reference to secondary education in California. Admission
 on consultation with instructor.
 207. Measurement of Elementary School Work. Seminar. (2) Either
 half-year. M, 7-9 p.m. MEAD
 For graduates, teachers, supervisors, principals and superintendents
 who wish to learn the elements and technique of present day testing
 of materials, methods, and class products, with the application of the
 same to the improvement of instruction. Admission on consultation
 with instructor.

208. Application of Psychology. Seminar. (2) Either half-year.

Tu, 7:30-9:30 p.m.

BREITWIESER

For advanced students in education who have a good foundation in general psychology. The topics will deal with the applications of psychology in special fields of general and vocational education.

209. Educational Statistics. (2) II. Tu, 4-6.

BREITWIESER

A study of statistical methods in education with practical problems.

297. Special Studies in the Administration of Vocational Education.

LEONARD

Open only to students of maturity and experience who have completed the basic courses in education and vocational education. The work will be designed to meet the needs of those enrolled and may include research and service in vocational bureaus, schools, shops, stores or factories. A conference period of at least two hours each week will be provided.

298. Special Studies.

FRENCH and the Department Staff

This course offers an opportunity for individual or for group study of the seminar type under different members of the departmental staff. Only students of proved ability may register for individual work. Groups may be formed under approved leadership for the study of current problems in education. Individual students must report regularly to the instructor in charge in accordance with a plan approved at the beginning of their work. Groups will be reported through their leaders. Not more than two units of credit will be given except with the formal approval of the Department of Education. A list of problems in education may be secured on application.

This course may be accepted in fulfillment of the requirement for seminar or research credit toward a higher degree or a high school teacher's recommendation with education as a major, only by formal action of the Department of Education.

Admission only on consultation with the instructor in charge.
Hours to be arranged.

299. Thesis for the Master's Degree.

Department Staff

Professional Method Courses

300. Introduction to Educational Method. (2) I. Tu Th, 3. RUGH

The school subjects, their nature and subdivisions into lessons; the nature, place and assignment of the lessons; the recitation; principles of explanation applied to high school subjects.

301. Principles of Study and Presentation. (2) I. S, 9-11. THOMAS

A consideration of the psychological fundamentals of study and its directions; typical processes in their relation to educational theory.

302. Problems in Elementary Education. (2) Either half-year. MEAD
S, 10-12.

Primarily for teachers in service, and principals or administrators, and for normal school or college graduates. Problems or projects of special interest to the individual will be studied after the pro-seminar method.

- *303. Language and Literature in Secondary Schools. (3) I. LANGE
M W F, 9.
Language and literature as educational means; principles, material,
and methods of instruction; the arts of interpretation and translation;
practical exercises, oral and written.
304. General Science in the Secondary Schools. (2) Either half-year.
Tu Th, 4. EDWARDS
305. Methods of Instruction in the Physical Sciences. (2) Either half-year. W F, 4. EDWARDS
306. Methods of Instruction in the Biological Sciences. (2) Either half-year. W F, 4. BAILEY
307. Methods of Instruction in English. (3) Either half-year.
M W F, 3. BRECK
This course is listed also as English 307.
309. Methods of Instruction in French and Spanish. (2) Either half-year.
Tu Th, 4. LEVY
314. Methods of Instruction in Physical Education for Women.
(2) Either half-year. Tu Th, 4. PATTERSON
315. Methods of Instruction in Home Economics. (2) Either half-year.
Tu Th, 4. LAGANKE
316. Methods of Instruction in Commercial Branches. (2) Either half-year. Tu Th, 4. —
319. School Management. (1) Either half-year. Th, 4. RUGH
320. Directed Teaching. (4) Either half-year.

RUGH and Supervisory Staff

Subject conferences, M, 4; general conference, W F, 4; supervision conference, M, 7 p.m.

Teaching and observation of teaching under the management of the director and supervisors of the University High School. The teaching ordinarily requires one hour daily for five days per week, but students are expected to have two consecutive hours between 9 and 3 o'clock in order to facilitate the teaching assignment. Required of all candidates for the Teacher's Recommendation whose pedagogical training is taken at this University.

Unless exempt under the rules of the State Board of Education, all candidates for a teacher's recommendation must file their applications for directed teaching with the instructor in charge of course 320. As far as practicable and necessary, directed teaching courses in agriculture will be accepted as substitutes for this course. Special arrangements may be made in exceptional cases.

321. Supervision of Social Organization and Control of Secondary Schools.
(2) I. Tu Th, 3. STURTEVANT
Intended for seniors and graduate students interested in extra-curricular activities.
322. Problems and Methods in Procedure for Advisors of Girls. (2) II.
Tu, 4-6. STURTEVANT
Intended for those interested in training and supervision of girls in secondary schools.

* Not to be given, 1920-21.

ENGLISH

CHARLES MILLS GAYLEY, Litt.D., LL.D., Professor of the English Language and Literature.

CORNELIUS B. BRADLEY, M.A., Professor of Rhetoric, Emeritus.

WALTER M. HART, Ph.D., Professor of English.

CHAUNCEY W. WELLS, A.B., Professor of English.

BENJAMIN P. KURTZ, Ph.D., Professor of English.

THOMAS F. SANFORD, A.B., Associate Professor of English.

HAROLD L. BRUCE, Ph.D., Associate Professor of English.

ROBERT P. UTTER, Ph.D., Associate Professor of English.

ARTHUR G. BRODEUR, Ph.D., Assistant Professor of English.

ROBERT W. GORDON, A.B., Assistant Professor of English.

SAMUEL J. HUME, M.A., Assistant Professor of Dramatic Literature and Art.

GEORGE A. SMITHSON, Ph.D., Assistant Professor of English in the Extension Division.

LEONARD BACON, A.B., Assistant Professor of English.

BENJAMIN H. LEHMAN, Ph.D., Assistant Professor of English.

ALWIN THALER, Ph.D., Assistant Professor of English.

GUY MONTGOMERY, M.A., Instructor in English.

CHARLES H. RAYMOND, A.B., Instructor in English.

WILLIAM W. LYMAN, Jr., M.A., Associate in Celtic and English.

ADOLPH E. ANDERSON, A.B., Associate in English.

MARY L. KLEINECKE, A.B., Associate in English.

ROBERT H. CLARK, A.B., Associate in English.

IOLA G. RIESS, M.A., Assistant in English.

R. E. SWEETLAND, A.B., Assistant in English.

MABEL BAIRD, A.B., Assistant in English.

Six Teaching Fellows.

EMMA J. BRECK, Ph.B., Lecturer in the Teaching of English.

ROBERT HUNTER, A.B., Lecturer in Economics.

Information for Lower Division Students

The examination in Subject A is prerequisite to all sections of English 1. English 1A-1B or Public Speaking 1A-1B is prerequisite to a major in English.

Upper division courses are open to all students who have the permission of the instructors in charge.

A fee of \$1 per half-year is required of all students enrolled in English 1.

Information for Upper Division Students

Systematic Study.—Students who wish to undertake systematic study in the upper division must have completed English 1A-1B or Public

Speaking 1A-1B. The 12 units of upper division courses which by university regulation must be chosen from one department may be made up from any upper division courses. But all who desire to engage in comprehensive and thorough study, whether for general or professional purposes, should meet the following conditions:

1. Students must present, ordinarily in the first term of the junior year, a programme to be examined and approved by the department. The programme, however, may be amended from time to time after consultation with the department.

2. The programme should cover 24 units of upper division courses, and must be approved by the chairman of the Committee on Upper Division Studies.

3. Normally the courses constituting the 24 units should be drawn from the list of courses in English; but the department may be willing to accept units from other departments, especially from the Department of Public Speaking. Such substitutions will be permitted only when the student has received the consent of the chairman of the Committee on Upper Division Studies. Attention is called to the following courses, which are more or less directly related to the courses offered by the Department of English: French 120A-120B; Slavic 30; Spanish 105A-105B; German 210A-210B; History 151A-151B.

4. The student must pass, at the end of the senior year, English Final Examination No. II (History of the Literature).

Honors-Students in the Upper Division.—A student in the upper division who has received honorable mention with the junior certificate may be registered as a candidate for honors provided 12 of the 48 units on which the honorable mention was based consist of courses in English.

Students who complete the programme of systematic study with distinction are eligible to receive honors. No special honors-courses are at present offered by this department, but in certain upper division courses students who are candidates for honors in English may arrange with the instructor for additional credit, the amount of which will be determined by the instructor after he has outlined with the student the additional work to be done. The assignment, which should be entered on the student's study-card as English 199, will involve no additional class exercises, but occasional conferences with the instructor.

Teachers' Recommendations and Higher Degrees.—See the Announcement of the Graduate Division.

LOWER DIVISION COURSES

A. Elementary English Composition (no credit). Either half-year.

Sec. 1, M, 4; Sec. 2, Th, 8.

KURTZ and Readers

Prescribed for all students who receive grade 4 or 5 in Subject A. One hour per week, with written exercises and conferences. Students must continue the course until they have passed Subject A.

1x. English Composition. (3) Either half-year.

BRUCE, LEHMAN, THALER, MONTGOMERY, KLEINECKE

M W F, 8, 9, 10; Tu Th S, 8, 9; Tu Th, 1, 2, and a third hour.

Prescribed for all students who have received grade 3 in Subject A. Practical exercises in effective writing and speaking.

1A-1B. Advanced English Composition. (3) Either half-year.

BRUCE, UTTER, LEHMAN, THALER, LYMAN, ANDERSON, CLARK, RIESS, BAIRD

Open to students who have received grade 1 or 2 in Subject A or in English 1x. Designed for students in Letters and Science, but open to others. Oral and written discussion, based on a study of selected authors.

1A. M W F, 9, 1, 2, 3; Tu Th S, 9, 10.

1B. M W F, 8, 9, 10, 1, 2; Tu Th S, 8, 9, 10.

1C-1D. English in Business Practice. (3) Either half-year.

RAYMOND, SWEETLAND

Open to students who have received grade 1 or 2 in Subject A or in English 1x. Designed for students in Commerce and Agriculture, but open to others. Special emphasis will be placed upon precision and directness of expression.

1C. M W F, 9, 1.

1D. M W F, 8, 10.

1F. English for Foreigners. (3) Either half-year. M W Th, 11. BAIRD

Open to students who have the consent of the instructor.

3A-3B. Introduction to the Study of Poetry. (3-3) Yr.

KURTZ

M W F, 9.

This course is designed to afford a historical perspective of European poetry and an introduction to the principles of criticism. It is offered both for those who desire a general acquaintance with poetry and for those who intend to select a European literature as a major. Lectures, reading of masterpieces in translation, frequent examinations.

4C-4D. Great Books. (1-1) Yr. F, 4.

GAYLEY

Lectures, reading and reports. The course is given in series, each of which may be taken once. In 1920-21 the subject will be Twentieth Century Literature.

UPPER DIVISION COURSES

Composition

101D. Advanced English in Business Practice. (3) Either half-year.

W, 7:30-9:30 p.m. and a third hour.

RAYMOND

101E. Advanced English in Business Practice. (3) Either half-year.

M W, 11, and a third hour.

RAYMOND

Continuation of 101D.

105. Critical Writing. (3) II. W, 2-4, and a third hour.

BRUCE

Theory and practice of critical writing. Contemporary books and reviews will form the chief basis of discussion.

106B. Frequent Writing. (3) Either half-year.

UTTER, LEHMAN, ANDERSON

Tu Th, 3, and a third hour; M W F, 4.

For six weeks, daily one-page exercises; thereafter less frequent and longer pieces. Class discussion of technique; appointments for individual criticism.

106K. Essay Writing. (3) I. M W F, 3.

WELLS

Prerequisite: course 105 or an equivalent.

Training in advanced exposition, oral and written; fortnightly compositions, with frequent *précis* and short essays. Class-study of a topic of present-day interest as a basis for writing: in 1919, *American Traits*; in 1920, *Journalism*. Limited to those who have the consent of the instructor.

106F. Essays in Literary Backgrounds. (3) II. M W F, 3.

WELLS

Prerequisite: course 105, or 106K, or an equivalent.

Composition oral and written, based on a survey of the historical, social and literary background of literature. In 1919, *The Elizabethan Age*; in 1920-21, *The American Literary Background*. Limited to those who have the consent of the instructor.

106H. Frequent Writing. (3) II.

LEHMAN

Tu, 7:30-9:30 p.m., and a third hour.

A continuation of English 106B. Limited to those students who have the consent of the instructor.

106M-106N. English Verse Composition. (3-3) Yr.

BACON

Tu Th, 10, and a third hour.

One lecture a week on the theory of verse and two hours of criticism on work submitted by members of the class. A long poem or a series of poems must be submitted at the end of the term. Open to all students who have the consent of the instructor.

*Principles of Literature: Interpretation and Criticism*109A. The Theory of Poetry; History and Principles. (3) I. KURTZ
M W F, 10.

From Plato to Hegel, with constant reference to the bases in poetry.

109D. Problems of Literary Criticism. (3) II.

KURTZ

M W, 11, and a third hour.

The characteristics and development of literary types: in 1921, the English Elegy.

*109E-109F. Problems of Literary Criticism. (3-3) Yr.

KURTZ

M W F, 10; M W F, 9.

(E) The beginnings of poetry: analysis and classification.

(F) The beginnings of song: analysis of structure with special reference to the differentiation into types.

History of the Language

Course 110A-110B, as a general survey, is recommended to all serious students of literature. It is, however, especially adapted to the needs of prospective teachers. Courses 111A, 111B, 111C and 111D form a sequence dealing with the language and literature down to 1400. Although the work in these courses is, of necessity, largely linguistic, it is concerned

* Not to be given, 1920-21.

also with the literature as such, and aims to study the masterpieces read as literary types and in connection with the life of the times that produced them. Throughout the sequence there is progressive training in the methods of literary and linguistic research. Courses 212A and 212B comprehend a more intensive investigation of the origin and growth of the language and afford a basis for graduate research in linguistics.

110A-110B. General Introduction to English Philology. (3-3) Yr.

Tu Th S, 8.

BRODEUR

Prerequisite: some acquaintance with Latin or German.

(A) The origins of language; the relation of language to thought; the life and growth of English.

*(B) The history of English uses; the development of English sounds, of English grammar, and of prose style. The evolution of words; phrasal growth; the order and structure of the sentence.

110D. English Grammar. (3) II. Tu Th S, 8.

UTTER

*111A. Old English. (3) I. Tu Th S, 9.

During 1920-21 the subject matter of course 111A will be incorporated into course 212A.

111B. Middle English. (3) II. Tu Th S, 9.

THALER

Prerequisite: course 111A.

111C. Chaucer. (3) I. Tu Th S, 9.

BRODEUR

The Canterbury Tales.

*111D. Chaucer. (3) II. Tu Th S, 10.

Troilus and Criseyde, The House of Fame, The Legend of Goode Women, the Parlement of Foules.

Drama: History, Construction, Criticism

114A-114B. The Elizabethan Drama. (3-3) Yr. M W F, 10. SANFORD

The principal dramatists from the accession of Elizabeth, 1558, to the closing of the theatres, 1642. (A) Lyly to Jonson; (B) Jonson to Shirley. Lectures and collateral reading.

114C-114D. Play Construction and the Modern Theatre. (3-3) Yr.

Tu, 10-12; Th, 10.

HUME

Lectures and readings, with reports by the students. Lectures on various phases of the modern theatre and play production. Stage decoration, community drama, pageantry, etc. Practice in play writing. Discussion and criticism of the plays in class. Limited to students who receive the consent of the instructor.

114E-114F. Advanced Play Construction and the Modern Theatre. (3-3) Yr. M W F, 10. HUME

114G. Restoration and Eighteenth Century Drama. (3) I. M W F, 3.

THALER

*117A-117B. Shakespeare. (3-3) Yr. M W F, 9.

HART

The reading and interpretation of selected plays.

* Not to be given, 1920-21.

117E-117F. Shakespeare. (3-3) Yr. M W F, 2

GAYLEY

Lectures. A presentation of the life, customs, and ideals of Shakespeare's age, based upon the study of a number of his plays and some of the works of his contemporaries. Special assignments adapted to advanced students.

The attention of all students specializing in the drama is called to the following courses offered in other departments:

Greek 104. Greek Drama.

French 120A-120B. Classical Drama.

Spanish 105A-105B. The Modern Drama.

Slavic 30. Russian Novelists and Dramatists of the Nineteenth Century.

Public Speaking 10A-10B. Dramatic Interpretation.

Public Speaking 118A-118B. Acting as an Art and as a Method of Interpretation.

Graphic Art 1A-1B. General History of Art.

Music 3A-3B. Introduction to the History of the Modern European Art of Music.

Historical and Critical Study of the Literature

102A-102B. History of English Literature. (3-3) Yr.

SANFORD, MONTGOMERY

A course for juniors and seniors in the study of the history of English literature and in the critical reading of illustrative masterpieces. Conducted without lectures or recitations. Weekly assignments. Two mid-term three-hour examinations and a final examination. The class will meet for organization on the evening of the first Wednesday of each half-year.

*115A. Elizabethan Poetry. (3) I. M W F, 10.

SANFORD

The literature of the sixteenth and seventeenth centuries from Elizabeth to the Restoration (1558-1660). Lectures and reports on assigned reading. Open only to students in the upper division and to graduates.

*115B. Spenser. (3) II. M W F, 10.

SANFORD

Intensive study of the complete works of Spenser with incidental reference to the history of his times and to his Classical and Renaissance sources.

*115C. Elizabethan Prose.

SANFORD

Intensive study of selected major prose writers of the sixteenth and seventeenth centuries, from Lyly to Dryden. Open only to students in the upper division and to graduates.

115D. English Prose from Malory to Bacon. (3) II.
Tu Th S, 9.

GORDON

A survey of English prose during the period of the Renaissance and Reformation and to the death of Queen Elizabeth, with special attention to the life and history of the times. Lectures, collateral reading, and examination.

* Not to be given, 1920-21.

- *116A-116B. The Bible in English Literature. (3-3) Yr. M W F, 2. GAYLEY and a Reader
Literary types; qualities of thought and style; careful study of selected books. Lectures, reports, and frequent examinations.
118. The Age of Milton. (3) I. M W F, 2. BACON
- *119A. Restoration Literature. (3) II. M W F, 1. SANFORD
The literature of the Restoration Period (1660-1700). Lectures and reports on assigned reading. Open only to students in the upper division and to graduates.
- *119B. Eighteenth Century Poetry. (3) II. M W F, 10. GORDON
Lectures on the poets from Pope to Wordsworth. Collateral reading and reports.
- 119C. Eighteenth Century Prose. (3) I. Tu Th S, 9. GORDON
Lectures on the major prose authors, with collateral reading and reports. Open only to students in the upper division and to graduates.
- 119F-119G. Johnson and His Circle. (3-3) Yr. Tu Th, 3, and a third hour. BACON
- 120A-120B. English Satire from Bishop Hall to Thackeray. (3-3) Yr. M W F, 9. MONTGOMERY
Lectures and class discussion upon the origin and development of verse-satire in England. Individual investigation of problems in social, political, and literary satire. Pro-seminar. Limited to students of at least junior standing.
- 121A-121B. Nineteenth Century Poetry. (3-3) Yr. M W F, 9. SANFORD
Lectures and collateral reading. (A) Wordsworth to Tennyson; (B) Tennyson to Swinburne. Open only to students in the upper division and to graduates.
- *121E-121F. Later Victorian and Georgian Prose. (3-3) Yr. W, 4-6, and a third hour. GAYLEY
Intensive study of selected masterpieces dealing with problems of critical, philosophical and political thought. Topics assigned for investigation. Theses and oral discussions. Open to seniors and graduates whose major is English; also to those who take it as Oral Debates upon Literary Topics as a sequel to Public Speaking 110A-110B. Limited to twenty students.
- *122A-122B. Browning. (3-3) Yr. M W F, 2. SANFORD
A systematic and intensive study of the works of Browning. (A) Introduction to Browning. Life and letters, poetic principles, theory of life, and minor poems. (B) Research course in the major poems and dramas. Lectures and interpretations. Open only to students in the upper division and to graduates.
- 123B. Liberal Thought in English Literature. (3) II. M W F, 10. BRUCE
The development of social ideals, as expressed in English literature from the French Revolution to the present.

- 124B. Shelley, Keats, and Tennyson. (3) II. M W F, 10. KURTZ
An intensive study of selected poems.
- *125A-125B. The Development of Narrative Art. (3-3) Yr. HART
M W F, 10. Book fee, twenty-five cents each half-year.
Lectures on the history of the briefer form of narrative from the beginnings to Kipling.
- 125C. Criticism of the Novel. (3) II. M W F, 2. WELLS
Lectures on the types of prose fiction, from the saga and early romance to the present-day novel. Ten books to be read and a brief critique to be written on each book. May be taken both as study of literature and as practice in advanced composition. Limited to those who have the consent of the instructor.
- *127. The Anglo-Celtic Poets. (3) I. Tu, 2; Th, 2-4. LYMAN
The poets of the so-called Celtic Renaissance, centering in Yeats and the modern school of Irish writers, with an investigation of their background in Old Irish Literature. Lectures, readings and reports.
- *128A-128B. Twentieth Century Poetry. SANFORD
The poets and the poetry of the period from the death of Browning (1889) to the present. Lectures; reports on assigned reading.
129. Celtic Influences in English. (3-3) Yr. M W F, 10. LYMAN
An investigation of the influence exercised upon English literature by Celtic art and ideas from the earliest times to the present day. A senior pro-seminar limited to fifteen. A reading knowledge of French or German required.
130. History of American Literature. (3) I. M W F, 2. WELLS
Prerequisite: at least junior standing.
A general review, illustrated by copious reading; lectures, reports, discussions. Introductory to course 131 and course 106F. Limited to those who have the consent of the instructor.
- 131A. American Authors. (3) I. M W F, 3. ANDERSON
For 1920-21, Hawthorne, Poe and Bret Harte (with special emphasis on the American Short Story).
- *132. The American Novel. (3) II. M W F, 3.
A historical sketch of the American novel followed by a consideration of its more recent aims and tendencies.
140. Scottish Literature. (3) II. Tu Th S, 10. GORDON
A comprehensive view of Scottish literature from Barbour to the Union of the Crowns, including the study of texts and collateral reading with frequent lectures. The treatment will be largely from the literary and not from the philological point of view. Lectures, recitations, and examination. Open only to students in the upper division and to graduates.

* Not to be given, 1920-21.

142. Sir Walter Scott. (3) I. Tu Th S, 10.

GORDON

Reading in Scott's poems, novels, and *Journal*; in *Lockhart's life*; in the periodicals; and in contemporary writers of the period 1800-1832. Lectures, frequent reports, and examination.

199. Honors Course. (1, 2, or 3) Either half-year.

The STAFF

Open only to junior or senior candidates for honors. Students who elect this course propose to the department special topics or fields for individual study or research. Frequent conferences with the instructor assigned by the department and a thesis are required.

Credit of from one to three units is granted, varying with the nature and difficulty of the work. Students should arrange with the department adviser for the upper division concerning this course before filing their study-cards.

Attention is called to the instruction in English offered by the *Division of University Extension*. Such instruction may be taken by correspondence.

GRADUATE COURSES

Graduates electing these courses must have a reading knowledge of French or German.

Courses 209A, 209F, 211B, 212A, 212B, 241A-241B, 242A-242B, 244A-244B, 244C-244D, 246A-246B, 247, and 248 are open only to prospective candidates for higher degrees.

Philology

- *211B. Seminar in Beowulf. (3) II.

- 212A. History of the English Language. (3) I. Tu Th S, 10. BRODEUR
Lectures, collateral reading, and the grammatical study of texts.

- *212B. Historical English Grammar. (3) I.

The Comparative Study of Literature

- 209A. Beginnings of Poetry. (3) I. M W, 11, and a third hour. KURTZ

- *209F. Problems of Literary Criticism. (3) II. KURTZ
M W, 11, and a third hour.
Seminar. Comparative study of deluge stories.

- *240A-240B. Seminar in Literary Criticism. GAYLEY

From a study at first hand of the principal authorities. This course must be preceded by course 109 or 110.

- 242A-242B. Seminar in the Comparative Study of Literature. (3-3) Yr.
Tu Th, 3-4:30. HART

- *250A-250B. Theory of Fiction. (3-3) Yr. M F, 4-5:30. WELLS
Prerequisite: graduate standing and the consent of the instructor.
Studies in the art of narrative, its principles and structures, with special application to the three orders of narration, impersonal, personal, and fictional; investigation of special authors or selected groups of novels.

* Not to be given, 1920-21.

Historical and Critical Study of the Literature

223B. Social Ideals in English Letters, from Langland to Morris. (3) II.
W, 7:30-9:30 p.m. HUNTER

224A-224B. Literary Problems. (3-3) Yr. GAYLEY
W, 4-6, and a third hour.

Open to prospective candidates for the Teacher's Recommendation and for higher degrees.

*241A-241B. Seminar in Literary Investigation. (3-3) Yr. GAYLEY
M, 4-6, and a third hour.

Studies in the history of English comedy.

*244A-244B. Seminar in the Romantic Movement. (3-3) Yr. SANFORD
M W, 11, and a third hour.

The Romantic Movement in the eighteenth and nineteenth centuries in Great Britain, with frequent reference to the parallel movement on the Continent. (A) Elizabethan century to Scott. (B) Nineteenth century to William Morris.

244C-244D. Seminar in the Romantic Movement. (3-3) Yr. SANFORD
M W, 11, and a third hour.

Prerequisite: a reading knowledge of French and German and graduate standing. As preparation for c-d students are advised to take courses 115B, 119A, 119B.

The naturalistic development from James Morrison to A. J. Munby. A critical and historical study of naturalistic writers from Thompson to Wordsworth (first half-year); from Wordsworth to Munby (second half-year).

246A-246B. Seminar in the English and Scottish Popular Ballads. (3-3) Yr.
Tu Th, 4:30-6. GORDON

Lectures, reports, theses. Special attention given to the history of the ballad collectors.

247. English Metric. (2) II. BACON

Discussion of metre, quantity and accent. Principle of equivalence. Emphasis will be laid on the scientific analysis of verse, but the historical aspect will not be ignored.

248. Literary Circles. (3) I. W, 2-4, and a third hour. BRUCE

Seminar in the study of sources, the definition of problems, and the development of theses. In 1920: Godwin, Shelley and their circle.

251A-251B. Studies in Special Authors. (3-3) Yr. WELLS
Tu Th, 4-5:30.

Open only to prospective candidates for the Teacher's Recommendation.

* Not to be given, 1920-21.

SPECIAL COURSES

- 307. The Teaching of English in Secondary Schools (3)** Either half-year.
M W F, 3, and a fourth hour. BRECK

Primarily for graduates, but open to seniors who have the consent of the instructor. This course may not be counted towards the graduate credit required for the Teacher's Recommendation or for the Master's degree. (Beginning 1920-21, this course or its equivalent will be a prerequisite to practice teaching in English.)

- 260A-260B. Special Study.**

The instructors in English hold themselves ready to assist and advise competent students who may propose plans of special study which meet with the approval of the department.

- 299. Thesis for the Master's Degree.**

Department Conference.

The STAFF

Alternate Fridays at 11. Open to candidates for higher degrees.

FRENCH

RICHARD T. HOLBROOK, Ph.D., Professor of French.

— — —, Professor of Romanic Philology.

RÉGIS MICHAUD, L. ès L., Professor of French.

LESLIE M. TURNER, D. ès L. de l'Université de Paris, Associate Professor of French.

*JOHN T. CLARK, Ph.D., Assistant Professor of French.

PERCIVAL B. FAY, Ph.D., Assistant Professor of French.

ALFRED SOLOMON, M.A., Assistant Professor of French.

WILLIAM GIRARD, Ph.D., Assistant Professor of French.

MILUTIN KRUNICH, Instructor in Serbo-Croatian and French.

LOUIS BARNIER, A.B., Associate in French.

CAROLINE B. SINGLETON, M.A., Associate in French.

MARIE CHAMPY, L. ès L., Associate in French.

GEORGE Z. PATRICK, LL.B., Associate in French.

HENRI LANGLARD, S.T.B., Associate in French.

RAYMOND H. SCIOBERETI, A.B., Teaching Fellow in Astronomy and French.

EUGENE JORALEMON, A.B., Assistant in Romanic Languages.

C. BISSELL, M.A., Assistant in French.

JULIETTE L'HOSTIS, A. B., Assistant in French.

LEANDER PAVID, A.B., Assistant in French.

ARTHUR W. RYDER, Ph. D., Associate Professor of Sanskrit.

A. CÉCILE RÉAU, C.A.L., Lecturer in French.

Facilities.—The University Library is well equipped with standard French writings, and every effort is made to obtain the books necessary for the courses offered by the department. The most important French periodicals, and publications bearing on the French language and literature are to be found in the Library.

Honors.—No student will be admitted to candidacy for honors who has not creditably completed all the lower division courses in French, or the equivalent of these courses. The candidate's record for each half-year must include at least sixty per cent of first or second grades in all courses, and work done in the Department of French must be first grade work. The candidate must furthermore give evidence of real linguistic ability. Honors-students will be under the direct supervision of a special committee appointed by the department. Each instructor will devote special attention to the honors-candidates who are in his courses, and direct their work along lines of general reading in connection with their major subject. Candidates will be encouraged to make extensive use of the library facilities.

*In residence second half-year only, 1920-21.

The 24 units of upper division work controlled by the department should ordinarily include some courses in a Romanic language other than French. In addition to work done in courses, the candidates will be required to pass a final oral or written examination, in which they must demonstrate a reasonable acquaintance with French literature and history, an exact knowledge of the grammar, and an ability to express themselves in the language of the major subject.

Higher Degrees.—See the Announcement of the Graduate Division.

PREPARATION FOR THE MAJOR

Required: 16 to 19 units of lower division courses in French.

Recommended: Latin, Greek, English, Philosophy 3A-3B, 4A-4B, 146A-146B.

NOTE.—The Department of French recommends that after 1920-1921 equivalents of French A and French B be taken in the high school, or elsewhere under competent direction.

LOWER DIVISION COURSES

A. Elementary French. (5) I.

SINGLETON, PATRICK, LANGLARD, CHAMPY, PAVID, L'HOSTIS, and other Associates or Assistants

Ten or more sections, 5 hours weekly, M Tu W Th F S, 8, 9, 10, 1, 2, 3. Students who pass in course A after having had one year of French in the high school will receive two units in addition to their matriculation credit.

B. Elementary French. (5) II.

SINGLETON, PATRICK, LANGLARD, CHAMPY, BISSELL, L'HOSTIS, and other Associates or Assistants

Eight or more sections, 5 hours weekly, M Tu W Th F S, 8, 9, 10, 1, 2. Prerequisite: course A or two years of high school French.

C. Intermediate French. (3) Either half-year.

CLARK, RÉAU, SINGLETON, LANGLARD, CHAMPY, PAVID

Five or more sections, M W F or Tu Th S, 8, 9, 10; M W F, 1, 2, 3. Prerequisite: course B or three years of high school French.

D. Intermediate French. (3) Either half-year.

CLARK, RÉAU, SINGLETON, LANGLARD

Five or more sections, M W F or Tu Th S, 8, 9, 10; M W F, 1, 2. Prerequisite: course C or four years of high school French.

5. Advanced French. (3) Either half-year.

CLARK, SOLOMON, GIRARD, RYDER, BISSELL

Four sections (two of which are to be conducted in French, two in English), M W F, 8, 9, 1, 2.

Selected readings of modern French authors.

6. Scientific and Technical French. (2) Either half-year. SCIOBERETI

Two sections: Tu Th, 11, 1. Prerequisite: at least one year of French.

Designed especially for men whose major studies are in the sciences, or who are interested in modern French scientific publications.

UPPER DIVISION COURSES

All upper division and graduate courses, except course 136A-136B, are conducted mainly or entirely in French.

Required for the departmental major: a minimum of 20 units of upper division work, including 106A-106B, 109A-109B, 112A-112B. Prospective teachers should also include 300A-300B.

Recommended: 120A-120B, 121A-121B, 130A-130B, 150A-150B.

106A-106B. Grammar and Exercises Based on French Classics. (3-3) Yr.
TURNER, FAY, GIRARD, and Readers

Three sections, M W F, 8, 9, 1. Prerequisite to all other courses which are required for the departmental major.

107A-107B. Typical Comedies as Documents of Spoken French. (2-2) Yr.
Tu Th, 9. HOLBROOK
Prerequisite: an average grade in French courses higher than 3.

109A-109B. A Survey of French Literature and Culture. (3-3) Yr.
M W F, 2. MICHAUD
From the seventeenth century to the present time, with typical and representative readings of important classical and romantic writers.

112A-112B. The Nineteenth Century. (2-2) Yr. Tu Th, 10. TURNER
(A) From Chateaubriand to Balzac. Analyses of selected plays, novels and stories, with emphasis on aesthetic values and on the general movement of ideas. (B) From Balzac to Anatole France. Analyses of works as above with, in addition, collateral readings from Taine, Renan, Faguet, Lanson.

120A-120B. The Seventeenth Century. (2-2) Yr. Tu Th, 11. FAY
(A) Selected plays of Corneille and Racine, with collateral study of Descartes, Pascal, and Bossuet. (B) Selected plays of Molière, with collateral study of Boileau, La Fontaine, La Bruyère, and La Rochefoucauld.

121A-121B. The Eighteenth Century. (2-2) Yr. M F, 3. MICHAUD
(A) The age of Voltaire to the end of Classicism, with special study of Fénelon, Fontenelle, Bayle, Montesquieu, l'Encyclopédie, Buffon, Voltaire. (B) The age of Rousseau and the dawn of Romanticism, with special study of Rousseau, Diderot, Bernardin de Saint-Pierre, André Chénier, and of important writers of the Revolutionary period.

125A-125B. The Sixteenth Century. (2-2) Yr. M, 4-6. HOLBROOK
Prerequisite: any four courses selected from 106A-106B to 121A-121B, or an equivalent, and an average grade in French not lower than 2.
Montaigne, Rabelais, Amyot, Marot, Ronsard, and others. Grammatical and lexicological studies of sixteenth-century usage; training in the elements of philological research.

129A-129B. Special Study. The STAFF
Consultations in regard to individual investigations in philological or literary fields.

- 130A-130B. Grammar, Composition, and Style. (2-2) Yr. FAY, GIRARD
Two sections, M W, 11.
Practice in oral and written composition based on selected models.
- 136A-136B. Historical Background of Romanic Literature. (2-2) Yr.
Tu Th, 1. JORALEMON
- 140A-140B. French Thought. (2-2) Yr. Tu Th, 8. TURNER
A survey of philosophical ideas and tendencies, principally those
of Descartes, Malebranche, Helvétius, Condorcet, Cousin, Lamennais,
Comte, Renan, Taine, Cl. Bernard, Fouillée, Ribot, Boutroux, Bergson.
Some of the lectures will be given in English. Prerequisite: ability to
read French.
- 150A-150B. Introduction to Medieval French Literature. (2-2) Yr.
Tu Th, 2. SOLOMON
Lectures, and reading of typical works in modern French versions.

GRADUATE COURSES

Recommended: Latin, Greek, German, and Italian or Spanish.

NOTE.—Certain courses marked (*) are given in alternate years.

- 201A-201B. Historical Grammar. Seminar. (2-2) Yr. HOLBROOK
History of French forms, sounds, and syntax.
- 202A-202B. Comparative Philology. Seminar. (3-3) Yr. —
The linguistic relations of French to Italian and Spanish.
- 203A-203B. Applied Phonetics. Seminar. (2-2) Yr. HOLBROOK or —
The sounds of living French.
- 204A-204B. Eleventh, Twelfth Centuries. (2-2) Yr. HOLBROOK
Readings in French literature, especially designed for graduates who
wish to study the French sources of early English writings: *Chanson
de Roland*, Chrétien de Troyes, *Lais* of Marie de France.
- 208A-208B. François Villon and *Pathelin*. Seminar. (2-2) Yr. HOLBROOK
- *209A-209B. French Criticism and Literary Doctrines since the Renais-
sance. (2-2) Yr. MICHAUD
A study of general and applied criticism especially during the clas-
sical period.
- 212A-212B. The Modern French Short-Story. Seminar. (2-2) TURNER
Technique; literary values; evolution. Open to graduates and
qualified juniors and seniors.

* Not to be given, 1920-21.

214A-214B. French Versification. (2-2) Yr.

MICHAUD

A study of the development of French verse technique since the middle ages, with special reference to present-day poets. Open to teachers and qualified seniors.

231A-231B. Literary Investigation in Comparative and especially in French and American Literatures. (2-2) Yr.

MICHAUD

299A-299B. Special Study for Candidates for the M.A. or Ph.D. The STAFF

300A-300B. Course for Teachers. (2-2) Yr. Tu Th, 11.

HOLBROOK

Review of grammar, study of methods of teaching French, practice in editing French texts.

GEOGRAPHY

RULIFF S. HOLWAY, M.S., Professor of Physical Geography.

BURTON M. VARNEY, M.A., Instructor in Meteorology.

RUTH E. BAUGH, Assistant in Geography.

RICHARD J. RUSSELL, A.B., Assistant in Geography.

JOHN WESLEY COULTER, A.B., Assistant in Geography.

PREPARATION FOR THE MAJOR

Required: Geography 1A, 1B, 2B, 1C, 2C.

Recommended: matriculation physics and chemistry; Economics 3A, History 4A-4B or 8A-8B, or Geology 1A.

Course 1A has been planned as a general introduction to all other courses in geography. Those who plan to specialize in the strictly physical aspects of geography should take Geology 1B and 6 in the last half of the sophomore year, as a prerequisite to Geography 102 and 118. Students who plan to specialize in historical or economic geography should consult with the chairman of the department as to necessary lower division courses in other departments. Closely related upper division work in other departments may be approved as part of the schedule for graduation. Candidates for the teacher's recommendation should consult the section on geography in the announcement of the School of Education.

Honors students in the Upper Division.—Candidates for honors in geography must take course 118 or 127 and present a thesis on a subject related to the course taken.

LOWER DIVISION COURSES

- 1A. Fundamentals of Modern Geography. (4) I. HOLWAY
M W F, 8, and one section meeting. Book fee, \$1.50.

Scope and problems of modern geography. Influence of geographic environment on man and his affairs. The relief and climate of the continents. Great routes for movements of peoples determined by geographic conditions. Nature and function of international boundaries. The ocean, its tides and currents, and its importance as the chief international highway. Maps, the graphic expression of the data of geography. Properties of different map projections and the uses to which they are adapted. The great problem of modern geography is the scientific investigation of the natural conditions affecting man and his work, and the mapping of such data to show their space relations.

Introduction to Economic Geography. (Economics 3A.)

Prerequisite: Geography 1A.

The relations between geography and economics.

- 1B. Weather and Climate. (3) II. M W F, 8.
Syllabus fee, fifty cents.

VARNEY

A study of the earth's atmosphere and the changes in it which produce our weather and influence our life. Significance of weather and climate as factors in business, transportation, health, aviation and related matters. Problems involved and results achieved in combatting frosts, fogs, hurricanes, tornadoes, drought, flood, hot waves, cold waves and the like. Examples of the influence of weather and climate on human affairs will be drawn from various parts of the world, but chiefly from the two Americas. This course is introductory to the more detailed study (in course 113) of climates throughout the world and their importance as a geographic influence, and is desirable for those intending to take course 116A or 116B.

- 2B. Map and Instrumental Study of Weather and Climate. (2) II.

VARNEY

Laboratory, Sec. 1, W, 1-4; Sec. 2, Th, 1-4, together with observational work, readings, and a report. Course 2B open only to those taking course 1B.

Making and recording of meteorological observations. Graphic methods of studying data on weather and climate. Practical work with meteorological instruments. Weather and climatic maps and the elementary principles of weather forecasting.

- 1C. Elementary Physiography. (4) II.

HOLWAY

M W F, 9, and one section meeting. Syllabus fee, fifty cents.

An introduction to the study and appreciation of land forms. Crustal movements and the resulting topography. Volcanoes and lava flows. Erosional forces and the processes of degradation. The evolution of topography in a geographic cycle under humid, arid, or glacial conditions. Topographic control of man's activities.

- 2C. Map and Field Study of Physiography. (1) II. HOLWAY, RUSSELL

Sec. 1, M, 1-4; Sec. 2, Tu, 1-4. Open to students taking course 1C. Sections limited to twenty students each. Two all-day field trips on Saturdays.

UPPER DIVISION COURSES

A lower division course in geography is prerequisite to courses 116A, 116B, 116C, 127.

102. Field Physiography. (3) I.

HOLWAY

Tu Th, 10, and field trips. Eight field days, agreed Saturdays, and one trip Thursday to Saturday, inclusive. Prerequisite: elementary physiography or geology. Traveling expenses, \$15 to \$20.

Evolution of topography in the vicinity of San Francisco Bay. The observation and interpretation of topographic forms.

103. Special Field Studies. (1-4)

HOLWAY

Additional field investigation under the direct supervision of the instructor, either during the academic year or during vacation. Open to qualified students by special permission.

113. Climatology. (3) I. VARNEY
 M W F, 8. Prerequisite: course 1B or its equivalent.
 A study of the factors which control climate in different parts of the world, considered especially in their relation to human activities. The climate of the United States as an illustration of climatic controls, with particular reference to California. The Friday appointment will usually be devoted to discussions of readings, map work, etc., assigned in connection with the lectures.
- *115. Physiography of California. (3) II. HOLWAY
 The physical features of California, with particular reference to the causes and processes involved in the evolution of topographic forms and their influence on man's activities.
- 116A. Geography of North America. (3) I. Tu Th S, 8. VARNEY
 The topography, climate, and natural resources of North America, and their relations to the economic geography of the continent.
- 116B. Geography of South America. (3) II. Tu Th S, 8. VARNEY
 The topography, climate, and natural resources of South America, and their relations to the economic geography of the continent.
- *116C. Geography of Europe. (3) VARNEY
 The topography, climate and natural resources of Europe, and their relations to the causes, conduct, and results of the Great War.
117. Relief Modelling. (1-2) I. VARNEY
 Laboratory work in making relief models. Limited to four students.
- *118. Advanced Physiography. (3). HOLWAY
 Prerequisite: course 102.
 Recent physiographic publications. A study of the principles controlling the evolution of topography. Prescribed for students whose major is physical geography.
121. Current Developments in Meteorology and Climatology. (2) II. VARNEY
 Tu Th, 10.
 Readings, reports and conferences on matters in the current literature of these sciences.
127. Geographic Influences in Human Affairs. (3) II. HOLWAY.
 M W F, 10.
 An introduction to the study of the general principles of geography involved in the influence of topography and climate upon human affairs. Prescribed for students whose major is human geography.

GRADUATE COURSES

- 219A-219B. (2-2) Yr. W, 3-5. HOLWAY
 Students who register for field work should have at least two days free each week or, preferably, should register for summer work. This course may also include library study in collating geographical data from scientific investigations on the Pacific Coast.

299. Thesis for the Master's Degree.

The opportunity for research work in the physical geography of California is almost unlimited. No state in the Union has a greater variety of topographical forms and as yet practically nothing but the most general study of these forms has been made. Within a short distance of the University the coast line topography is most striking and many special problems in connection with ocean terraces and sea-cliff erosion will yield valuable results. Peculiarities of drainage, fault zone topography, and remnants of former geographic cycles are almost at our doors. Within the limits of the state, problems varying from the study of living glaciers to the erosion conditions of the most arid deserts are available for investigation by qualified students. The meteorology and climatology of the state also offer abundant work for original observations, and the extensive data collected by the Weather Bureau may be used for study in this field.

In addition to the field work suggested above, there is need for extensive research in the University Library in order that geographical data scattered throughout the various scientific reports on the geology, botany, water supply, etc., of the coast may be gathered and made available in connection with direct geographic surveys.

Opportunities are by no means confined to physical geography, for problems of equal interest in commercial geography are multiplying with the rapid growth of the coast cities and with the transportation changes under modern conditions.

GEOLOGY AND MINERALOGY

ANDREW C. LAWSON, Ph.D., Professor of Mineralogy and Geology.

GEORGE D. LOUDERBACK, Ph.D., Professor of Geology, and Dean of the College of Letters and Science.

ARTHUR S. EAKLE, Ph.D., Professor of Mineralogy.

ROY R. MORSE, B.S., Instructor in Geology.

—— —, Instructor in Geology.

THOMAS L. BAILEY, A.B., Teaching Fellow in Geology and Mineralogy.

—— —, Teaching Fellow in Geology and Mineralogy.

JOHN C. MERRIAM, Ph.D., Professor of Palaeontology and Historical Geology.

BRUCE L. CLARK, Ph.D., Assistant Professor of Palaeontology.

PREPARATION FOR THE MAJOR

Required: Geology 1A (3); Mineralogy 1A-1B (4); 2AB (3); Physics; Chemistry.

Recommended: Physics 1A-1B, 2A-2B or 4A-4B; Chemistry 1A-1B, 6A-6B or 5, 110; Drawing AB, C, 3D; Civil Engineering 1A-1B, 3; French; German.

Honors-students in the Upper Division.—The programmes of honors-students must be approved by the department not later than the beginning of the senior year. All such programmes must include Geology 102A-102B and Geology 112 or Mineralogy 106A-106B. Honors will be awarded on the basis of excellence in the major.

GEOLOGY

There are no laboratory deposits in this department.

LOWER DIVISION COURSES

- 1A. General Geology: Dynamical and Structural. (3) I. LAWSON
M W F, 9. Prerequisite: elementary chemistry and physics.

NOTE.—Students who intend to make geology a major study in the later years of their course are advised to take this course as early as possible.

- 1B. General Geology: Historical. (2) II. Tu Th, 10. MERRIAM.
Prerequisite: Geology 1A or Palaeontology 1.

6. Practical Work in Palaeontological Geology. (2) II. CLARK
Laboratory, M or W, 1-4; and seven all-day field trips.

Given in connection with Geology 1A. Laboratory work and excursions. For the purpose of studying a representative series of the geological horizons and of the fossils of the Coast Ranges in the field, seven excursions to points of interest near Berkeley are made on convenient Saturdays during the term. Open to students who have completed or are taking Geology 1B.

UPPER DIVISION COURSES

- 102A-102B. Field Geology. (2-2) Yr. Saturday, all day. LOUDERBACK
Prerequisite: Geology 103AB, which may be taken concurrently. Students taking this course may be called upon to make excursions entailing an outlay for traveling expenses of \$30.

An inquiry by the student into the geological conditions which obtain in the region around the Bay of San Francisco, with occasional more extended excursions to points of special interest; training in methods of field observation and interpretation of results.

At least fifteen field days during the year. Credit in this course is given only to students who take the year's work, but supplementary credit may be given at the rate of one unit for eight days additional field work. Concurrently with the field work the class meets for lectures, exercises in geological mapping, discussion of methods, interpretation of observations and readings of geological maps.

- 102C. Economic Geology, Metalliferous Deposits. (3) II. LAWSON
M W F, 10. Prerequisite: Geology 1A and Mineralogy 1A, 1B.

- 102D. Economic Geology, Non-metalliferous Deposits. (2) I. LAWSON
Tu Th, 9. Prerequisite: Geology 1A and Mineralogy 1A, 1B.

- 103AB. Introduction to Petrology. (4) I. MORSE
Lectures, M W, 10; laboratory, Tu W, 1-4.

Prerequisite: Geology 1A, Mineralogy 1A and 2AB. To students in the Mining, Metallurgy, and Petroleum Engineering options in the College of Mining only one period of laboratory is prescribed, making 5 hours, 3 units credit for the course.

(A) The general characteristics, origin, mode of occurrence, and nomenclature of rocks and description of the more common types. (B) Laboratory practice in the determination of textures, mineral components, and systematic position of rocks by direct observation of hand specimens.

- 104A-104B. Petrographical Laboratory. (3-3) Yr. MORSE
Tu, 11; Th F, 1-4.
Prerequisite: Mineralogy 2AB; and for 104B, Geology 103AB.

(A) The optical properties of crystals and methods of investigation by means of the polarizing microscope. (B) Study of rocks with the aid of the microscope. A general introduction to practical petrology. Laboratory and lectures.

107. **Physical Geology of North America.** (2) II. Tu Th, 4. **LAWSON**
Prerequisite: Geology 1A and Mineralogy 1A, 1B.

- 112A-112B. **Undergraduate Thesis Course.** (2-2) Yr.

Credit in this course is given only to students who take the year's work.

The investigation of a problem individually chosen, with a formal report on the results. An introduction to independent research. If the subject chosen is properly approved, the completion of this course fulfills the thesis requirement for the degree of B.S. in the College of Mining. Admission to the course, hours, and subject matter must be individually arranged with the instructor under whom the student chooses to do the work.

114. **Earthquakes: an Introduction to Seismology.** (2) I. M W, 11.

Prerequisite: elementary physics and Geology 1A or its equivalent.

The phenomena of earthquakes in relation to physical and geological principles involved in their causation and in the methods of their investigation. Lectures.

115. **Instrumental Seismology.** (2) Either half-year.

Prerequisite: Geology 114.

Instrumental methods of investigating earthquakes. The care and operation of seismographs with practice in the routine work of a seismographic station. The principal types of instruments employed for earthquake registration.

116. **Tectonic Geology.** (2) II. Tu Th, 8.

MORSE

Prerequisite: a working knowledge of descriptive geometry and Geology 1A and 102B-102B.

The phenomena of folding and faulting. Graphic solution of fault problems.

GRADUATE COURSES

210. **Inorganic Geology.**

LAWSON

Discussions of special topics and advanced problems. Critical reviews of current literature. Prosecution or original geological research and publication of results.

209. **Geology of California.** (2) II. Hours by arrangement. **LOUDERBACK**

(A) From the earliest times to the opening of the Tertiary.

*(B) From the post-Jurassic revolution to the present time.

Lectures outlining the geological history of sedimentation, volcanic activity, the major earth movements, and geographical changes in California and bordering territory. Reviews of the literature, discussions of evidence, and field methods. Map studies and preparation of reports.

Open to graduates and seniors who have completed a course in historical geology, such as Geology 1B or 107, and a course dealing practically with rocks, such as 102A-102B or 103AB.

* Not to be given, 1920-21.

214A-214B. Advanced Laboratory and Field Work. Yr. LOUDERBACK

One or more of the following lines may be pursued: (a) Special methods— isolation of rock constituents, study of minerals in grains, special optical and other physical methods, chemical and micro-chemical testing. (b) Systematic study of a wide range of rock types with reference to literature, and critical discussions. (c) Special study of rocks of selected provinces with their geographical and petrological relations. (d) Applications of petrographical and petrological methods of study of vein and ore minerals, opaque minerals, alteration products, metasomatism, etc. (e) Research. Descriptive, genetic and experimental problems. Combined field and laboratory studies. (f) Seminar in petrographic geology. The general topic for 1916-17 was contact metamorphism; for 1917-18, geology and petrogenesis in the desert; for 1918-19, igneous rocks; for 1919-20, sedimentation. Credit value to be fixed in each case.

299. Thesis for the Master's Degree.**MINERALOGY****LOWER DIVISION COURSES**

- 1A-1B. Determinative Laboratory. (2-2) Yr. EAKLE, BAILEY**
 Sec. 1; Tu Th, 9-12; Sec. 2, M F, 1-4. Fee, \$2.50 each half-year.
 Prerequisite: matriculation chemistry.

Practice in determination of minerals (A) by their physical properties, and (B) the use of the blowpipe and chemical reagents.

- 2AB. Crystallography and Crystallographical Laboratory. (3) II. EAKLE**
 Lectures, M W, 9; laboratory: Sec. 1, Th, 1-3; Sec. 2, F, 1-3.

Lectures on the morphology of crystals, with practice in the determination of the forms of crystals and in the methods of crystal projections.

UPPER DIVISION COURSES

- 103. Descriptive Mineralogy. (2) II. M W, 11. EAKLE**
 Lectures on the classification, properties, modes of occurrence, and uses of minerals.
 Prerequisite: courses 1A, 1B, 2AB.

- 104. Gems and Precious Stones. (2) I. M W, 11. EAKLE**
 Lectures on the kinds and properties of gem minerals, their occurrences and history. Courses 104 and 105 are given alternately.

- *105. Paragenesis of Minerals. (2) I. M W, 11. EAKLE**
 Lectures on mineral formation, associations, and synthetic production. Courses 104 and 105 are given alternately.

* Not to be given, 1920-21.

106A-106B. Undergraduate Thesis Course. (2-2) Yr.

The investigation of a problem individually chosen, with a formal report on the results. An introduction to independent research. If the subject chosen is properly approved, the completion of this course fulfills the thesis requirement for the degree of B.S. in the College of Mining. Hours, subject matter and admission to the course must be arranged individually with the instructor under whom the student chooses to do his work. Required of undergraduates electing a major in mineralogy.

107. Mineralogical Laboratory. Either half-year.**EAKLE**

Prerequisite: course 103.

One or more of the following lines of study may be pursued: (a) Systematic study of selected suites of minerals. (b) Practice in measuring and drawing crystals. Admission to the course by individual arrangement. Credit to be based on the character of the work done.

GRADUATE COURSES

In physical and chemical mineralogy, little has been done with the minerals of California, and the University collections contain an abundance of material suitable for work in these fields.

To the student who wishes to devote his attention to the genesis of minerals, their associations and their occurrences, this state offers exceptional advantages. The mineralogy of California is very incompletely known and few mineral deposits have been described. There are numerous contact zones, pegmatic dikes, veins, and dry lake deposits, all possessing a varied assortment of minerals, which afford attractive problems for investigation.

207. Advanced Crystallography. Either or both half-years. EAKLE

This course includes practical work in the measurement of crystals, the calculation of forms and the various methods of graphical representation.

208. Advanced Mineralogy. Either or both half-years. EAKLE

In this course the student is given the opportunity to obtain a wider and more thorough knowledge of minerals than is possible in the undergraduate courses. Qualified undergraduates may be admitted to the course. Subjects for theses may be chosen in either of the courses 207 or 208.

299. Thesis for the Master's Degree.

GERMAN

HUGO K. SCHILLING, Ph. D., Professor of the German Language and Literature.

ALBIN PUTZKER, M.A., Professor of German Literature, Emeritus.

J. HENRY SENGER, Ph.D., Professor of German, Emeritus.

CLARENCE PASCHALL, M.A., Professor of German.

LAWRENCE M. PRICE, Ph.D., Assistant Professor of German.

CLAIR HADYN BELL, Ph.D., Instructor in German.

FRANKLYN SCHNEIDER, Ph.D., Instructor in German.

ALICE P. TABOR, Ph.D., Instructor in German.

RALPH H. RING, M.A., Assistant in German.

PREPARATION FOR THE MAJOR

Required: German A-B (10) and C-D (6) or RC-RD (6).

Recommended: Latin, French.

Lower Division.—Two years of German in high school or five semester units of college work will ordinarily admit to course B; three years of German in high school or ten semester units of college work will ordinarily admit to courses C-D, CD, RC-RD, and SC-SD. In cases of special merit the department may grant more advanced standing.

Upper Division.—The requirement for admission to the upper division is sixteen semester units of college work or four years of German in high school. In cases of special merit admission may be granted on three years of high school German.

Honors-students in the Upper Division.—Upper division students who have completed with high standing courses A, B, CD, or their equivalent, and who have received the junior certificate with honorable mention, or who have the recommendation of the department, may be admitted, on application to the secretary of the department, to candidacy for honors. Such candidates will be required to complete with high standing an approved programme of courses including, normally, 24 units of upper division work in German. The department does not prescribe any definite programme, but it will, as a rule, insist upon a good practical command of the language, and a general knowledge of German literature. To this end, course 118A-118B will constitute a part of each programme, and likewise, unless these courses shall have been taken already in the lower division, courses 106A-106B and 106C-106D. In the case of candidates who are already well advanced in German and whose plan of study makes it desirable for them to take certain courses in allied departments, permission may be given to count such courses in partial satisfaction of the 24 units required for the major, and to count upper division courses in German taken in the freshman or sophomore years.

Master's Degree.—Candidates for the master's degree must have a general knowledge of the history of German literature, including a more

intimate acquaintance with some particular period, together with a knowledge of Middle High German.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy in German must present both philology and literature, one as their major, the other as a minor. Candidates whose major is philology will be examined in Gothic, Old Saxon, Old High German, Middle High German, and the history of the German language generally. Those presenting literature as a major will be examined in the history of German literature, a general knowledge of the whole field being required, together with a more detailed knowledge of one period, author, or literary type. Candidates presenting philology as a minor will be examined in Old High German, Middle High German, and the outlines of the history of the German language. The requirement for the minor in literature is a general knowledge of the history of German literature. As the second minor for those specializing in philology, either Old French, Old English, or Old Norse is suggested; for those specializing in literature, any other European literature, or else history, or philosophy.

LOWER DIVISION COURSES

A. Elementary German (beginners' course). (5) Either half-year.

PASCHALL, PRICE, BELL, SCHNEIDER, TABOR

I, M Tu W Th F, 8, 9, 10; II, M Tu W Th F, 9, 10. The course corresponds to the first two years of high school German. Students who pass in course A after having had one year of German in the high school will receive two units in addition to their matriculation credit.

A¹-B¹. Elementary German (beginners' course). (3-3) Yr.

M W F, 8, 4; Tu Th S, 8. This course is exclusively for students enrolled in the colleges of Chemistry and Engineering.

B. Elementary German (continuation of A). (5) Either half-year.

PASCHALL, PRICE, BELL, SCHNEIDER, TABOR

I, M Tu W Th F, 8, 9, 10; II, M Tu W Th F, 8, 9, 10. Prerequisite: course A or two years of high school German.

Course B (or BC of 1918-19) or three years of high school German is prerequisite to courses C-D, CD, RC-RD, SC-SD.

C-D. Intermediate German (continuation of B). (3-3) Yr.

TABOR

M W F, 9. Prerequisite: course B or three years of high school German.

Selections from prose and poetry, ordinarily including one of Schiller's dramas; grammar and composition. The course is conducted in German and furnishes the regular preparation for the upper division courses. It corresponds to the fourth year of high school German.

CD. Intermediate German (continuation of B). (5) II.

PRICE

M Tu W Th F, 8. Prerequisite: course B or three years of high school German.

RC-RD. Intermediate German (prose reading only). (3-3) Yr. BELL
M W F, 1.

Selections from literary and historical prose, as a preparation for rapid reading. Course RE-RF omits all composition work and restricts the study of grammar to what is indispensable for reading. It leads up to course 107A-107B; but students who pass in course RC-RD with credit may be admitted to other upper division courses.

SC-SD. Introduction to Technical Reading. (3-3) Yr. TABOR, RING

Two sections: Tu Th S, 8, 9. If the enrollment warrants it, there will be separate sections for students in the College of Chemistry and for pre-medical students.

Course SC-SD provides special training in the reading of more or less technical texts and leads up to course 103A-103B. Students who have had course SC-SD may, however, take course 106A-106B; and they may be admitted to courses 105A-105B and 110A-110B, if they take at the same time course 106A-106B, or satisfy the department that they are not deficient in grammar and composition.

9A-9B. Outlines of the History of German Literature. (No knowledge of German required.) (1-1) Yr. Tu, 11. PRICE

Lectures (in English) and collateral reading of representative works (in English translations). This course is open to students in all departments of the University and does not require a knowledge of German. It is not intended for those who pursue the study of German beyond course 105A-105B (see course 118A-118B).

UPPER DIVISION COURSES

The courses in this group (except courses 103A-103B, 107A-107B, and 300) are conducted in German.

Four years of high school German, or course C-D, or, conditionally, RC-RD, or SC-SD is prerequisite to courses 103A-103B, 105A-105B, 106A-106B, 107A-107B, 110A-110B.

103A-103B. Scientific (Medical) German. (3-3) Yr. Tu Th S, 9. RING

Primarily for pre-medical students, but with general reading in biology, physiology, and psychology.

105A-105B. Classics of the Eighteenth Century. (3-3) Yr. PASCHALL
M W F, 9. Selected works of Lessing, Goethe, and Schiller.

106A-106B. Grammar, Composition, and Conversation. (2-2) Yr. BELL
Tu Th, 11.

106C-106D. Grammar, Composition, and Conversation. (2-2) Yr.
M W, 11. SCHNEIDER
Prerequisite: first or second grade of scholarship in course 106A-106B.

107A-107B. Rapid Prose Reading. (2-2) Yr. Tu Th, 11. BELL

Subjects of general interest in history, biography, economics, and related fields.

- 110A-110B. The German Ballad. (1-1) Yr. Tu, 1. SCHILLING
German ballad poetry from Goethe and Schiller to the present day.
- 111A-111B. Novelists of the Nineteenth Century. (2-2) Yr. SCHNEIDER
Tu Th, 9. Prerequisite: course 105A-105B, 106A-106B, 107A-107B
or 110A-110B; or the former course 104A-104B.
Rapid reading of selected novels of Hauff, Freytag, Ludwig, Keller,
Meyer, and others.
- 118A-118B. History of German Literature. (3-3) Yr. SCHILLING
M W F, 2. Prerequisite: course 105A-105B, or 107A-107B, or the
former course 104A-104B.
First half-year, the Middle Ages; second half-year, from the Reformation to the death of Goethe. Lectures and discussions; collateral reading. Not open to lower division students except by special permission of the instructor.
119. Middle High German. (3) I. Tu Th S, 9. PASCHALL
Prerequisite: same as for course 118A-118B. This course should be taken together with or after (but not before) 118A-118B.
Outlines of grammar. Selections from the Nibelungenlied, the Kudrun, and the epics of chivalry.
300. German Phonology and Orthography. (1) II. W, 3. PASCHALL
- 150B. Special Study.
Topics selected with the approval of the department and studied privately under the direction of one of the instructors. This course is intended primarily for graduate students in absence.

GRADUATE COURSES

Prerequisite: for the literary courses, course 118A-118B; for those in philology, ordinarily, courses 119A, 106C-106D, and 121D. For advanced study in German literature a reading knowledge of Latin and French and a general acquaintance with German history is practically indispensable. For philological work some knowledge of Greek is highly desirable.

- 206A-206B. Composition. (2-2) Yr. SCHNEIDER
Prerequisite: first or second grade of scholarship in course 106C-106D.
Themes and essays. Practice in the correcting of written exercises. One conferred a week with each student, at an hour to be appointed by the instructor. This course cannot be credited in satisfaction of the requirement of graduate work for the master's degree unless the student has already completed an equal amount of approved graduate work.

- *210A-210B. English Influences upon German Literature. Pro-seminar. (2-2) Yr. PRICE

First half-year: the Eighteenth Century, with particular reference to Goethe; second half-year: Shakespeare in Germany.

* Not to be given, 1920-21.

212A-212B. French Influences on German Literature, especially in the Eighteenth Century. Pro-seminar. (2-2) Yr. Tu, 7:30 p.m. PRICE

*222A-222B. The Faust Legend and Goethe's Faust. (3-3) Yr.
M W F, 3. SCHILLING

The inception of the idea in antiquity; its medieval forms; the Theophilus drama; the Faustbuch; Marlowe's Faustus; Calderon's Magico Prodigioso; Byron's Manfred; Ibsen's Brand; Hauptmann's Versunkene Glocke; Goethe's Faust, studied in detail.

*223A-223B. The Poems of Goethe. (1-1) Yr. SCHILLING

*225A-225B. German Literature in the Nineteenth Century. (2-2) Yr.
Prose, fiction, epic and lyric poetry. TABOR

226A-226B. German Literature in the Nineteenth Century. (2-2) Yr.
M W, 11. The drama up to 1880. TABOR

230A-230B. The German Drama of the Present Day. (2-2) Yr.
Tu Th, 2. SCHILLING

The drama and the stage from the beginning of the naturalistic movement to the present.

Introduction to Germanic Philology. (See under Germanic Philology.)

Gothic: Grammar and Reading. (See under Germanic Philology.)

235. Old Saxon. Outlines of Germanic Metrics. (3) II. SCHILLING

*237. Old High German. (3) II. SCHILLING

*240. Historical Grammar of the German Language. (2) I. PASCHALL

242A. "Jung Deutschland" and German Intellectual Life up to the Revolution of 1848. Pro-seminar. (2) I. SCHNEIDER

242B. The Lyrics and Prose of Heinrich Heine. Pro-seminar. (2) II. SCHNEIDER

250A-250B. Germanic Seminar. SCHILLING

Original investigation in linguistic and literary fields chosen with regard to the needs and wishes of each student.

299. Thesis for Master's Degree.

* Not to be given, 1920-21.

GERMANIC PHILOLOGY

For the courses in English Philology see the department announcement. The courses in Germanic Philology are open to competent undergraduates, at the discretion of the instructor.

GRADUATE COURSES

201. Introduction to Germanic Philology. (2) I. SCHILLING
The Indo-Germanic race, its history, and the phonology of its principal languages. The Germanic sound-shift and the phonological development of the Germanic dialects.
202. Gothic. (3) II. PASCHALL
Grammar, with special reference to the other Germanic dialects. Reading.
203. Old Norse. (2-2) Yr. PASCHALL
Outlines of the grammar; reading.
- *205. Germanic Antiquities. SCHILLING

* Not to be given, 1920-21.

GREEK

ISAAC FLAGG, Ph.D., Professor of Greek, Emeritus.

GEORGE W. BUNNELL, M.A., Professor of Greek, Emeritus.

JAMES T. ALLEN, Ph.D., Professor of Greek.

IVAN M. LINFORTH, Ph.D., Professor of Greek.

OLIVER M. WASHBURN, A.B., Associate Professor of Classical Archaeology.

GEORGE M. CALHOUN, Ph.D., Associate Professor of Greek.

ROGER M. JONES, Ph.D., Assistant Professor of Greek.

¹JOHN A. SCOTT, Ph.D., LL.D., Sather Professor of Classical Literature for 1920-21.

For a more detailed description of the courses and for the regulations concerning honors, teachers' recommendations, and higher degrees see the separate Announcement of the Department of Greek for 1920-21.

Greek studies properly include not only the language of the Greeks but all the manifestations of their genius in literature, philosophy, art, history, politics and religion. As far as possible the department of Greek, assisted by members of other departments, aims to provide instruction in all these subjects. The courses which are offered fall into two classes: (a) those in which a knowledge of the Greek language is required, including the courses for beginners in Greek; (b) those for which a knowledge of Greek is not necessary. But it cannot be too strongly emphasized that a fair knowledge of the language is essential for anything more than a superficial study of the works of the Greeks.

PREPARATION FOR THE MAJOR

Required: 1AB (5 units), 2AB (5) or 1A-1B (6), 2A-2B (6).

Recommended: Latin 1 and 5; Philosophy 3A; and a reading knowledge of French or German.

I. COURSES NOT REQUIRING A KNOWLEDGE OF THE GREEK LANGUAGE**LOWER DIVISION COURSES**

The following courses do not require a knowledge of any language other than English. Courses 50, 53, 54, 55 and 64 are open to all students without exception, but at least sophomore standing is required for the others. By special arrangement with the instructor all but 50 may be taken as upper division courses, in which case the student should register for 151B, 152, etc.

² In residence second half-year only, 1920-21.

50. The Greek Heritage. (2) I. Tu Th, 11.

LINFORTH

An introduction to Greek studies, designed to acquaint the student with the time and place of Greek civilization, and to direct his attention to the several avenues by which a knowledge of this civilization may be sought: language, literature, philosophy, politics, sculpture, architecture. Primarily for freshmen. Lectures and readings.

*51a. Greek Gods and Forms of Worship. (2) I.

LINFORTH

Tu Th, 11.

The Homeric pantheon, sacred shrines and festivals, forms of religious ritual, the mysteries. The course is planned as a general introduction to religious phenomena.

51b. Greek Religion and Philosophy before Plato. (2) II. LINFORTH

Tu Th, 11.

The orthodox religious tradition, Orphic and Pythagorean ideas, beginnings of physical speculation, development of ethical thought, the sophists, theological criticism, intellectual enlightenment of Athens in the fifth century.

52. Greek Government. (2) I. Tu Th, 2.

CALHOUN

The governmental organization of typical Greek states with especial attention to Athens, Sparta, and the Cretan cities; reading of the more important documents (in translation). A systematic presentation of the actual forms of government, rather than a study of Greek political theory, is proposed.

53. Greek Law. (2) II. Tu Th, 2.

CALHOUN

Lectures on the beginnings of Greek law, the lawgivers and the codes, the laws of Gortyn, Attic law and procedure, Greek international law, Greek law in the Hellenistic period; reading of important sources and study of cases (in translation).

54. Introduction to Greek Literature. (2) I. Tu Th, 2.

ALLEN

A rapid survey of Greek literature except the drama (see course 55) from Homer to Theocritus, with special emphasis upon epic poetry and the heroic age, the development of choral lyric and the rise and significance of the several types of literary prose. Lectures, readings, reports.

55. Studies in Greek Drama. (2) II. Tu Th, 2.

ALLEN

The development, significance and influence of the Greek drama: Aeschylus, Sophocles, Euripides, Aristophanes, and Menander. Lectures, readings, reports.

61. The Philosophy of Plato. (2) I. Tu Th, 10.

JONES

Lectures and reports. The students will read the greater part of the dialogues (in translation).

62. Aristotle. (2) II. Tu Th, 10.

JONES

Lectures on the ethics, politics, logic, and metaphysics of Aristotle. Assigned readings and reports.

* Not to be given, 1920-21.

64. The Literature of Ionia and the Adjacent Islands. (2) II. SCOTT
Tu Th, 10.

In this special study of the Ionic tradition in literature the Homeric poems and the histories of Herodotus will be given a prominent place.

UPPER DIVISION COURSES

- *156. Greek Painting. (2) II. WASHBURN
*158. Greek Sculpture. (2) II. WASHBURN
159. Greek Architecture. (2) II. M W, 11. WASHBURN
Prerequisite: junior standing, and either Graphic Art 1A or a reading knowledge of Greek or Latin.
The historical development of Greek architecture will be studied through the existing remains, and, as far as practicable, with the help of Vitruvius and architectural inscriptions.

II. COURSES REQUIRING A KNOWLEDGE OF THE GREEK LANGUAGE

LOWER DIVISION COURSES

Students who have credit for matriculation subject 5 should take courses 101 and 102 in their freshman year. Students who have credit for matriculation subjects 5a¹, 5a² only should take courses 2A and 2B or 2AB in their freshman year and courses 101 and 102 in their sophomore year. Students who have no matriculation credit in Greek should take course 1A-1B in their freshman year and courses 2A and 2B in their sophomore year, or courses 1AB, 2AB in their freshman year.

- 1A. Greek for Beginners. (3) Either half-year. CALHOUN, JONES
I (Jones), M W F, 9; II (Calhoun), M W F, 2.
1B. Greek for Beginners. (3) Either half-year. CALHOUN, JONES
I (Calhoun), M W F, 2; II (Jones), M W F, 9.
1AB. Greek for Beginners. (5) Either half-year. ALLEN, LINFORTH, CALHOUN
I, Sec. 1 (Linforth), M Tu W Th F, 9; Sec. 2 (Allen), M Tu W Th F, 3; II (Calhoun), M Tu W Th F, 3.
2A. Attic Prose. (3) I. M W F, 2. JONES
Reading in Xenophon's Anabasis; study of inflectional forms, syntax, vocabulary; exercises both in rapid reading and close analysis.
2B. Homer. (3) II. M W F, 2. JONES
Several books of the Iliad; Homeric forms and vocabulary; intelligent and expressive reading of the verse.
2AB. Attic Prose and Homer. (5) Either half-year. ALLEN, LINFORTH, CALHOUN
I (Calhoun), M Tu W Th F, 3; II, Sec. 1 (Linforth), M Tu W Th F, 9; Sec. 2 (Allen), M Tu W Th F, 3.

* Not to be given, 1920-21.

UPPER DIVISION COURSES

Courses 101 and 102 are designed to follow courses 1A, 1B and 2A, 2B, and form the proper introduction to the other upper division courses in which a knowledge of the Greek language is required. Students who have not had courses 101 and 102 should not elect any of the other courses in the following group without consultation.

- 100A-100B. Prose Composition. (1) Yr. JONES
101. Introduction to Plato. (3) I. M W F, 10. JONES
102. Greek Poetry. (3) II. M W F, 10. LINFORTH
 Reading of selections from the *Odyssey* and of the *Prometheus* of Aeschylus. Lectures and assigned readings on the history of Greek poetry.
103. Historical Prose: Herodotus. (3). M W F, 2. ALLEN
104. Greek Drama. (3) II. M W F, 2. ALLEN
 Reading of two tragedies and one comedy. Lectures and readings on the technique and presentation of Greek plays.
110. Homer. (3) I. M W F, 10. LINFORTH
 Reading of books XIII-XXIV of the *Iliad*. The course is designed primarily to offer training in the art of reading Greek rapidly and intelligently, and to assist in the acquisition of a vocabulary. Recommended as an introduction to Professor Scott's lectures in the second half-year.
114. Plato. (3) II. M W F, 10. JONES
 Reading of several dialogues such as the *Gorgias*, *Protagoras*, *Meno*.
- 199A-199B. Special Study. (1-4; 1-4) Yr. The STAFF
 Each student will pursue privately some definite course of reading or investigation and will report at regular intervals to the instructor.

GRADUATE COURSES

The following courses are intended for graduate students only, and one or more of them will be given each year, according to the needs of students. Many graduate students will find it profitable to take also some of the upper division courses for undergraduates.

- 212A-212B. Seminar in the Attic Orators. (2-4; 2-4) Yr. CALHOUN
 The reading and interpretation of selections from the authors chosen for study; lectures on the Attic law, the development of forensic eloquence, and the several orators of the canon. To each member of the class will be assigned a problem for investigation or a portion of the text for intensive study. In the assignment of this special work the needs and tastes of the individual students will be considered, and those who do not wish to engage in a technical study of Attic law will be encouraged to choose topics related to their particular fields of interest. The private orations of Demosthenes will be studied in 1920-21; Teubner texts will be used.

HISTORY

HERBERT E. BOLTON, Ph.D., Professor of American History and Director of the Bancroft Library.

EUGENE I. MCCORMAC, Ph.D., Professor of American History.

LOUIS J. PAETOW, Ph.D., Professor of Medieval History.

— — —, Professor of Modern European History.

¹**RAUL RAMÍREZ**, A.B., S.P., Chilean Exchange Professor of History.

^{*}**WILLIAM A. MORRIS**, Ph.D., Associate Professor of English History.

²**CHARLES E. CHAPMAN**, Ph.D., Associate Professor of Latin-American and California History.

HERBERT I. PRIESTLEY, Ph.D., Associate Professor of Mexican History and Librarian of the Bancroft Library.

KARL C. LEEBRICK, Ph.D., Assistant Professor of History.

JOHN J. VAN NOSTRAND, Ph.D., Assistant Professor of Ancient History.

RALPH S. KUYKENDALL, M.A., Assistant in History.

BENJAMIN WEBB WHEELER, M.A., Assistant in History.

KENNETH UHL, A.B., Assistant in History.

ROLLAND VANDEGRIFT, M.A., Assistant in History.

DAVID BJORK, M.A., Teaching Fellow in History.

UBALDO J. MARRA, M.A., Teaching Fellow in History.

LAWRENCE HILL, A.B., Teaching Fellow in History.

N. F. BAKER, M.A., Teaching Fellow in History.

RAY C. BRIDGMAN, A.B., Teaching Fellow in History.

INFORMATION FOR LOWER DIVISION STUDENTS

Introductory Courses.—Courses 4 and 8 are especially designed for freshmen, but may be taken by sophomores. Course 17 is designed for sophomores and is not open to freshmen. One lower division year-course is prerequisite for a major in the department. Sophomores who wish to enter upper division courses should consult with the instructors in charge. Students who enter the University of California as juniors or seniors may offer substitutes for History 4A-4B, History 8A-8B, or History 17A-17B. No freshman may take both History 4A-4B and History 8A-8B at the same time.

Foreign Languages in the Lower Division.—All students who intend to take upper division courses in history are advised to acquire a reading knowledge of at least one of the following languages before they reach their junior year: French, German, Italian, Latin, Spanish.

¹ In residence first half-year only; ² second half-year only.

^{*} Absent on leave, 1920-21.

INFORMATION FOR UPPER DIVISION STUDENTS

Classification of Upper Division Courses.—It will be seen on consulting the list of courses below that, in the upper division, the first course in each field of history ordinarily is a general survey (cf. courses 111, 121, 141, 151, 161, 162, 165, 171, 181). These general courses are followed by corresponding advanced courses in which some part of the larger field is studied intensively (cf. courses 112, 122, 142-145, 152-155, 166, 172-174B, 182-189). No student will be restricted in the choice of upper division courses, but the department is ready to give advice in this matter, especially to students who are looking forward to a higher degree or to a teacher's recommendation with history as a major subject. The department recommends that at least one general (or 3-hour) course be followed by a corresponding advanced (or 2-hour) course.

Honors-Students in the Upper Division.—Honors will be conferred only upon students who have completed, with distinction, at least 30 units of history (including course 199), of which at least 18 units must be upper division work.

For information concerning graduate work and the Teacher's Recommendation in the Department of History see the Announcement of the Graduate Division published April, 1920.

LOWER DIVISION COURSES

4A-4B. History of Modern Europe. (3-3) Yr.

Lecture, M W, 10, and a section hour to be arranged.

The growth of western European civilization from about 1500 A.D. to the present time. An introduction to the study of history, affording a general perspective of the development of society, politics, and institutions in Europe. No textbook is used, but a syllabus of sixty lectures is provided, thirty to be delivered each term. The first half-year's work extends to the latter part of the eighteenth century and the second half-year's work from that date to the present time. The class is divided into sections in which recitations are conducted by the assistants, one section meeting per week being arranged for each student. Conferences with individual students are held in Room 131, Library. Designed especially for freshmen, but open to sophomores. Advanced students are eligible only by permission of the instructor. Course 4B is open to students who enter at the beginning of the second half-year. Syllabus fee, \$1.50 per year.

8A-8B. History of the Americas. (3-3) Yr.

BOLTON

Lectures, Tu Th, 11, and a section hour to be arranged.

A general survey of the history of North America, South America, and Central America, from the discovery to the present time. Emphasis is placed on the planting of European civilization in the Americas, the growth of the colonies of the different nations, the international contest for the continents, the wars of independence in English-America and in Hispanic-America, the development of the independent American republics, their relations with each other and with the rest of the world. No text book is used, but a syllabus of the sixty lectures is provided. The class is divided into sections in which

recitations are conducted by the assistants, one section meeting per week being arranged for each student. Conferences for individual students are held in Room 131, Library. Designed especially for freshmen, but open to sophomores. Advanced students are eligible only by permission of the instructor. Course 8B is open to students who enter at the beginning of the second half-year. Syllabus fee, \$1.50 per year.

- 17A-17B. History of the United States. (3-3) Yr. McCORMAC
Prerequisite: sophomore standing. Book fee, \$1.50 per year.

Settlement and the development of institutions in the thirteen English colonies; political, social and economic history of the United States. Frequent written recitations on the lectures and assigned reading.

UPPER DIVISION COURSES

- *107. Naval History. LEEBRICK

A survey of the history of sea power and its relation to the development of civilization. Special attention is given to the navy of the United States: its history, traditions and organization. The course attempts to give an appreciation of the problems and importance of sea power.

- 111A-111B. Ancient History. (3-3) Yr. VAN NOSTRAND

(A) Greek history to the Roman conquest. (B) Roman history to the sixth century A.D.

Prerequisite: a reading knowledge of French, or German, or Italian.

- 112A-112B. Roman Imperialism. (2-2) Yr. VAN NOSTRAND

Prerequisite: a reading knowledge of French or German or Italian or Latin.

The effect of expansion upon the institutions of Rome. Success and failure of Rome as an imperial state.

- 121A-121B. Medieval History. (3-3) Yr. PAETOW

Prerequisite: a reading knowledge of one of the following languages: French, German, Italian, Spanish, Latin.

A general survey of European history from about 500 to about 1500, based on Paetow, *Guide to the Study of Medieval History*, pt. II.

- 122A-122B. Medieval Culture. (2-2) Yr. PAETOW

Prerequisite: a reading knowledge of French or German.

From about 500 to about 1300, with special emphasis on the twelfth and thirteenth centuries, based on Paetow, *Guide to the Study of Medieval History*, pt. III.

- *123A-123B. Medieval France. (2-2) Yr. PAETOW

Prerequisite: a reading knowledge of French.

From the Treaty of Verdun to Louis XI. A general survey of political and social history. Considerable emphasis is laid on the history of institutions: (A) Feudal institutions; (B) Monarchical institutions.

* Not to be given, 1920-21.

- *131A-131B. Renaissance and Reformation. (3-3) Yr. —

NOTE.—In courses 141A-141B, 145A-145B, 165A-165B, 166A-166B, a knowledge of a modern foreign language is desirable.

- 141A-141B. Modern European History. (3-3) Yr. LEEBRICK
Prerequisite: one of the lower division courses in history.

A study of the general history of Europe from about 1648 to 1914, based in part on Stephens, *Syllabus of a Course of Lectures on European History*.

- *142A-142B. The French Revolutionary Period in Europe. (2-2) Yr. —

- *143A-143B. The Napoleonic Period in Europe. (2-2) Yr. —

- 145A-145B. History of Europe in the Nineteenth Century. (2-2) Yr. LEEBRICK

A study of the various developments in European history in the last century with special emphasis on the Metternichian and Bismarckian systems.

- *147A-147B. Diplomatic History of Europe since 1815. —

A general survey with the emphasis on international relations.

- *151A-151B. History of England. (3-3) Yr. —

Lectures on the political and constitutional history of England with the study of documents contained in Adams and Stephens, *Selected Documents of English Constitutional History*.

- *152A-152B. Constitutional History of England. MORRIS

Prerequisite: course 151A-151B (may be waived by the instructor).

A detailed study on the origin and growth of the English Constitution. Especially designed for students of law.

- *155A-155B. History of the British Empire. MORRIS

History of English colonies and dependencies.

- †161A-161B. History of Spain and Portugal. (3-3) Yr. CHAPMAN

The European background of Hispanic America, with special emphasis on institutions. (A) To 1516. (B) To date.

A reading knowledge of Spanish, Portuguese, or French is desirable. Not open to students who have credit for course 161A.

- *162A-162B. History of Hispanic America from 1808. CHAPMAN

The wars of independence and the development of Hispanic American states, with emphasis on their relations with the United States. Special attention is given to conditions of life in South America at the present time.

A reading knowledge of Spanish, Portuguese, or French is desirable.

* Not to be given, 1920-21.

† Not to be given August-December, 1920.

- 163A. The Intellectual History of the Spanish American Republics. (2) I. RAMÍREZ

A general survey of the development of education, art, and literature since the period of Independence, with an intensive examination of the modernist movement in belles lettres.

- 164A. History of South America. (3) I. RAMÍREZ

The ethnological background; transmission of Spanish culture; geographical, economic, and social factors in the development of the modern states; South American influences on the programme of Pan-Americanism; modern problems and tendencies.

- 165A-165B. History of Hispanic America to 1810. (3-3) Yr. PRIESTLEY

The discovery and occupation of Hispanic America; colonial policies of Spain and Portugal; development of their colonial political, economic, and social institutions, and a comparison of these with the institutional phases of other European expansions.

- 166A-166B. History of Mexico. (2-2) Yr. PRIESTLEY

The colonial background; the establishment of independence and the struggle for constitutional government. In the second half-year the emphasis will be upon modern trade conditions and diplomatic relations with the United States.

- *171A-171B. History of the United States. (3-3) Yr. MCCORMAC

A general course dealing with the English colonies and the political history of the United States.

- 172A-172B. Constitutional History of the United States. (2-2) Yr.

MCCORMAC

Prerequisite: course 171A-171B (may be waived by the instructor).

Colonial governments; formation of the national constitution; historical development of constitutional government in the United States.

- *173A-173B. The Civil War and Reconstruction. (2-2) Yr. MCCORMAC

- *174B. History of the United States since 1868. (2) II. MCCORMAC

- 181A-181B. The History of the West. (3-3) Yr. BOLTON

The settlement and development of the West, and its influence upon national and international affairs at each stage of advance. The emphasis will be upon the Trans-Mississippi West.

- *182A-182B. Spain in North America. (2-2) Yr. BOLTON

Prerequisite: course 161A-161B, or 181A-181B. A reading knowledge of Spanish is desirable.

A general survey of the establishment of Spanish rule and Spanish institutions of North America, followed by a more detailed study of Spanish activities in and relative to territory now within the United States.

* Not to be given, 1920-21.

- †189A-189B. History of California. (2-2) Yr. CHAPMAN
 The discovery and settlement by the Spaniards, the coming of the Americans, and the development of the American state.
- 199A-199B. Honors Course. Members of the Department

TEACHERS' COURSE

301. The Teaching of History. (3) Either half-year. VAN NOSTRAND
 A discussion of the teaching of history in secondary schools, with special reports and criticism of textbooks.

GRADUATE COURSES

- 202A-202B. Historical Method and Bibliography. (2-2) Yr. PAETOW
 The work in the course is based primarily on Langlois and Seignobos, *Introduction to the Study of History*. The second half-year is devoted largely to practical exercises.
- 211A-211B. Ancient History. (2-2) Yr. VAN NOSTRAND
 The subject for 1920-21 will be: The Roman public land system.
- 221A-221B. Medieval History. (2-2) Yr. PAETOW
- *222A-222B. Introduction to Latin Palaeography and Diplomatics. (2-2) Yr. PAETOW
 The practical exercises in this course will be done mainly with facsimiles of manuscripts of the twelfth and thirteenth centuries.
- 241A-241B. Modern European History. (2-2) Yr. LEEBRICK
 The Metternichian period in Europe.
- *251A-251B. Studies in Early English Institutions. MORRIS
- †261A-261B. History of Spain and Portugal. (2-2) Yr. CHAPMAN
- †262A-262B. The History of Chile. (2-2) Yr. CHAPMAN
- *265A-265B. History of Hispanic America to 1810. (2-2) Yr. PRIESTLEY
- 266A-266B. History of Mexico. (2-2) Yr. PRIESTLEY
 For 1920-21 the subject will be: Economic Development of Mexico, 1821-1910.
- 271A-271B. History of the United States. (2-2) Yr. MCCORMAC
 For 1920-21 the subject will be: The Civil War.
- 281A-281B. Spain in North America. (2-2) Yr. BOLTON
- 282A-282B. The Trans-Mississippi West. (2-2) Yr. BOLTON
- *289A-289B. History of California. (2-2) Yr. CHAPMAN
299. Thesis for the Master's Degree.

† Not to be given August-December, 1920.

* Not to be given, 1920-21.

HOME ECONOMICS

Two distinct courses of study are offered in the general field of home economics, one in household art and the other in household science. These two courses may be combined by the individual student with the consent of these departments. Such a combination is often impracticable, however, on account of the prerequisite drawing and design on the one hand and the more advanced prerequisite chemistry on the other. Students who wish to enter upon either of these courses of study or upon a combination of the two are urged to include in their work for matriculation elementary chemistry, botany, geometrical and freehand drawing, clothing and foods as listed in the Circular of Information, under general list of preparatory subjects. Such a plan will enable students to fulfill without delay the requirements for the junior certificate and to secure fundamental training in the subjects preparatory for the major work in Household Art or Household Science.

For description of courses students are referred to the Department of Household Art and the Department of Household Science.

HOUSEHOLD ART

MARY F. PATTERSON, Associate Professor of Household Art and Design.

ANNE SWAINSON, M.A., Associate in Textiles.

HELEN W. FANCHER, Associate in Household Art.

MAE LENT, Associate in Household Art.

JOHN W. GILMORE, M.S., Professor of Agronomy.

Equipment.—Adequate laboratory equipment is provided for the courses in clothing construction and design, textile analysis and weaving, interior decoration and other courses in original design in material. Photographs, lantern slides and other illustrative materials are provided for the lectures on the historical and artistic background necessary for these courses. A number of carefully selected books on art subjects have recently been added to the library for the advanced work in historical research.

Admission and Prerequisites.—Students who intend to offer major work in household art should have completed matriculation botany, chemistry, clothing and mechanical drawing. A student's progress is often delayed by the omission of this matriculation work. Opportunity is, however, offered in the Summer Session to make up these subjects.

PREPARATION FOR THE MAJOR

Required: Household Art 1A-1B (6); History 4A-4B or 8A-8B (6); Graphic Art 6A-6B (6); Physics 2A-2B (6); Chemistry 1A-1B (10); Economics 1A-1B (8); or the equivalents.

Recommended: Graphic Art 12 (2); Graphic Art 14 (2); Psychology 2A (3); French, Italian, or German.

NOTE.—If mechanical drawing, freehand drawing and botany are not offered for matriculation, Drawing C (2), Graphic Art AB (2), Botany 2A (4) should be added, in the summer session if possible.

If specialization in interior decoration is to be pursued, Drawing 3ABC (6); Architecture 5A-F (6); 11 (3), 12A-12B (2), 13A-13B (2), 14A-14B (2) should be added.

Sequence of Courses for Major Work.—A major in household art consists of approximately twenty-four units of upper division work chosen from four distinct groups of upper division courses leading to professional work in different fields of household art study—the teachers' training course; costume design, illustration and stage settings; the training for interior decoration; the specialization for occupational therapy.

I. Training for the High School Teacher's Recommendation. Candidates are required to complete the major work in household art as stated in the bulletin of the School of Education for 1920-21. The bachelor's degree with this major should be followed in the fifth year by the Teachers' Course 300 and the required work in education, together with a minimum of eighty hours of supervised practice teaching taken in connection with Education 320. Further graduate study should be chosen

from Household Art 294A-294B, *295A-295B, 297 or *298. Students offering this programme should add another semester of work if at the same time they are candidates for the master's degree.

II. Specialization in Costume Design. This group should include the lower division prerequisites for major work as stated under Admissions and Prerequisites. Advanced work should include Household Art 193A-193B, 194A-194B, 197A-197B, 198; Graphic Art 127 and 128A-128B. Courses recommended: Household Art 177A-177B, *180; Economics 182; Household Art 194A-194B; and French, German, or Italian. Graduate courses: Household Art 294A-294B and 299.

III. Specialization in Interior Decoration. This group should include lower division prerequisites for major work, with the addition of work in drawing and architecture as stated above. Advanced work should include Household Art 195A-195B, 198, 198C, 160; Architecture 110; Civil Engineering 125; Economics 182; and a choice should be made of four units from Household Art *176, 177A or 177B, *178 or *180. Courses recommended: Landscape Gardening 101 and 103; Household Art 194A-194B. Graduate courses: Household Art 295A-295B and 299.

IV. Specialization in Occupational Therapy. This group should add to the lower division prerequisites for major work as stated above Psychology 2A, which is required for Psychology 102B, and advanced work should include Household Art 193A-193B, 194A-194B, 197A-197B, 198, *176; Psychology 102B. Graduate courses: 294A-294B or *295A-295B; *298 and 299.

Honors-Students in the Upper Division.—Requirements for candidacy for honors in household art at graduation are as follows: (1) The creditable completion of 24 units of upper division work approved by the department. (2) The continuance of the honors-status, and the privileges and opportunities offered to candidates thereby, depends upon the ability of the student to do original and independent work and upon the maintenance of a high standard in all courses as well as in the special honors work undertaken.

A reading knowledge of French, Italian, or German is most desirable. The field of study may include all types of decorative and applied art, the materials used, and their past and present mode of manufacture, whether by hand or machine processes. Such research is admirable as a basis for graduate work leading toward a master's degree.

Master's Degree.—The requirements are stated in the Announcement of the Graduate Division.

Summer Session.—The courses offered in the summer session are intended to meet the requirements of visiting teachers, and of university students who wish to take courses which may not have been scheduled in the fall or spring sessions. Textile work, courses in the theory and application of design to costume and interior decoration, sewing and methods courses for teachers are frequently offered. Graduate courses in artistic and historic research in household art subjects may also be included in the summer programme, when so announced.

Extension Service.—Co-operation with the University Extension Division is offered whenever possible by the outlining of courses to be given under its auspices for the outside public. Textile tests for adulteration of fabrics are frequently made for housewives and other interested persons. Bibliographies are also sent out on request.

Laboratory Fees.—Household Art 1A-1B, \$2.50; 193A-193B, \$4; 194A-194B, \$1.50; 195A-195B, \$1.50; 198 (I), \$3; 198C (II), \$3; 197A-197B, \$2; *176 (I), \$3; 177A-177B, \$3; *178 (II), \$3. These fees are payable each half-year and cover only photographic blueprints, the use of microscopes and other special equipment, materials and supplies for analysis and construction problems. Materials for individual problems are to be furnished by the students.

LOWER DIVISION COURSE

1A-1B. Clothing. (3-3) Yr.

PATTERSON, FANCHER, LENT

Lectures illustrated with stereopticon, Th, 1; laboratory: Sec. 1, M W, 1-4; Sec. 2, Tu, 1-4, Th, 2-5; Sec. 3, F, 1-4, S, 9-12.

Prerequisite: matriculation clothing. Laboratory fee, \$2.50.

Lectures on artistic appreciation through design; a study of pattern and color in materials of past and present day manufacture; the evolution of typical forms in clothing and household articles; the simplification or standardization of dress individualized by color and decorative features; uniforms and their place in modern dress; a brief survey of fashions of historic character and those in common use; analysis of modern dress from the standpoints of hygiene, economics, and design. A notebook is required.

UPPER DIVISION COURSES

193A-193B. The History of Costume. (3-3) Yr.

PATTERSON

M W F, 10. Prerequisite: History 4A-4B or the equivalent.

Costume as pictured in the art of all ages, with a background of contemporary historical periods. Lectures illustrated with stereopticon. Students will be required to make a style-book and a fee of \$4 each half-year will be charged for the photographs so used.

194A-194B. The History of Costume Laboratory: Advanced Design.

(2-2) Yr. W F, 1-4.

Prerequisite: Graphic Art 6A-6B and 12. Household Art 193A-193B should be taken concurrently, also Graphic Art 127 and 128A-128B. Laboratory fee, \$1.50.

The application of the principles of design and color to advanced problems including costume and related work, with renderings in several mediums. Experimentation in materials with dyes and dyer resists.

*195A-195B. House Furnishing. (3-3) Yr.

PATTERSON

Lecture, Tu, 8, illustrated by stereopticon; laboratory: Tu Th, 9-12. Prerequisite: Mechanical Drawing, Graphic Art 6A-6B. Recommended: Graphic Art 12. Civil Engineering 125 should precede or parallel this. Laboratory fee, \$1.50.

The work of the first semester covers a study of the modern house—its site, plan, space relations and proportions, built-in equipment, hardware, finishes for walls, woodwork, floors; color and textures in furnishing under varying conditions of light and use; design, selection and placing of furniture, textiles and decorative objects.

The work of the second semester includes the history of furniture, a study of "Period Styles"—their origin, development and in-

* Not to be given, 1920-21.

fluence on modern interior decoration, and their suitable application to its problems. Laboratory work includes library research and analysis in connection with such study; original designs for modern furnishing with experimentation in color processes and combinations of textures in material.

198. Textiles. (4) I.

GILMORE, SWAINSON

Lectures, Tu Th, 8; laboratory: Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4. Prerequisite: matriculation botany or Botany 2A and Chemistry 1A-1B. Laboratory fee, \$3.

A study of textile raw materials; analysis of the physical and chemical characteristics of fibres in commercial use and their preparation for use on filatures, cordage and woven fabrics; ancient and modern processes of manufacture—spinning, weaving, finishing; tests for adulteration and durability; studies in purchasing.

198c. Textiles. (3) II.

SWAINSON

Lecture, Tu, 1; laboratory, Tu, 2-5, Th, 1-4. Prerequisites: course 198 and Graphic Art 6A-6B and 12.

Historical study of textile weaves from primitive time to the present day. A notebook is required for library and pattern research. Laboratory work includes analysis of certain distinctive historic weaves, with experimentation in warping and weaving. Original designs are executed for modern household purposes with special consideration of color, texture and beautiful proportion.

197A-197B. Review and Discussion of Technique by Practical Problems. (2-2) Yr. Tu Th, 9-12.

FANCHER

Prerequisite: course 1A-1B, Graphic Art 6A-6B or equivalents and course 198, which may precede or parallel this. Laboratory fee, \$2.

This course is intended for students who are preparing either to teach clothing or to enter other lines of artistic professional work. A notebook is required.

160. House Management. (2) II.

Lectures and discussion, M W, 11; laboratory, discussion and field work, Tu Th, 2-4, S, 10-12. Prerequisite: Economics 1A-1B. Laboratory fee, \$1.

Household Art 198 should precede this in sequence or be taken concurrently. Organization of the work of the household from the standpoint of efficiency, service, convenience; consideration of equipment and of a variety of systems for heat, light, ventilation, water; demonstration of labor saving devices and improvement of method in common household tasks; household finances—budgeting, recording, buying. Visits will be made to institutions and manufacturing plants.

***176. Basketry. (2) I. Tu Th, 9-12.**

SWAINSON

Prerequisite: Graphic Art 6A-6B and 12. Laboratory fee, \$3.

The earliest form of textile industry among primitive peoples; their materials, constructions, design, purposes. Original designs are made and carried out in terms of these basketry materials. A notebook is required for library and pattern research. This course is intended for advanced students wishing to teach design principles through work in material.

- 177A-177B. Metal-work and Jewelry. (2-2) Yr. SWAINSON
W, 1-4, 8, 8-11. Prerequisite: Graphic Art 6A-6B and 12 or equivalents. Laboratory fee, \$3. Recommended: as a parallel course 193A-193B.

A study of the principles of design in historic metalry; ornamentation growing out of construction and exemplified by the execution of original designs for modern uses in metal and inexpensive stones. Notebook required.

- *178. Pottery. (2) II. Tu Th, 9-12. SWAINSON
Prerequisite: Architecture 14A-14B and Graphic Art 6A-6B and 12. Laboratory fee, \$3.

- *180. Dyes and Dyeing. (3-3) Yr.
Lectures and laboratory.

199. Honors Course. (1 or 2) Either half-year. PATTERSON
Special reading will be assigned individually, according to the interest and preference of the student, and frequent conferences with the instructor will be arranged. Credit not to exceed 2 units either half-year will be determined in advance for each student.

300. Teachers' Course. (2) I. M W, 9. The STAFF
Prerequisite: senior or graduate standing, with a major in household art.

Lectures and discussion of methods of presentation of household art subjects for secondary schools and extension classes, with consideration of suitable equipment, the use of illustrative material and the formulation of lesson plans for these fields of study; the consideration of work in household art which may come under the head of "related subjects" in connection with vocational training.

- The Practice of Teaching. The STAFF
I or II or throughout the year. Prerequisite or parallel: course 300.
Opportunity for practice teaching under the direction of members of the staff will be available either half-year or throughout the year in connection with Education 320.

305. Teachers' Course in Industrial Art for the Elementary Grades.
(2) II. W, 4-6. SWAINSON

Lectures with laboratory application.

This course includes a study of materials, industrial processes and related subject matter organized in terms of the elementary school child. It is designed particularly for teachers and supervisors of the elementary schools and vocational part-time courses.

- 294A-294B. Seminar in Costume Design. (3-3) Yr. PATTERSON
Tu Th, 9-12.

Original designs for modern costume. Historic research in "Period Styles" for stage settings and costumes. Drawings, renderings in water color and other mediums. This should be preceded by 193A-193B, 194A-194B, 197A-197B, and Graphic Art 128. (Outside reading required.)

* Not to be given, 1920-21.

- *295A-295B. Interior Decoration. (3-3) Yr. M W, 9-12. The STAFF
297. Advanced Study. (2). PATTERSON
Intensive study may be undertaken in some special phase of design or household art in connection with teaching. Such work may satisfy the requirement for graduate study for the High School Teacher's Recommendation.
- *298. Occupational Therapy. The STAFF
299. Thesis for the Master's Degree. The STAFF

ALLIED COURSES WHICH MAY BE TAKEN AS MAJOR WORK IN HOUSEHOLD ART

- Graphic Art 127, 128. (Art Anatomy.) NAHL
- Architecture 110. (Housing.) HAYS
- Economics 182. (Studies in the Standards of Living.) PEIXOTTO
- Civil Engineering 125. (Plumbing, Heating, Ventilating and Lighting.) LANCELIER

* Not to be given, 1920-21.

HOUSEHOLD SCIENCE

AGNES FAY MORGAN, Ph.D., Associate Professor of Household Science.

RUTH OKEY, Ph.D., Assistant Professor of Household Science.

— — —, Instructor in Household Science.

ANITA M. LASSEN, A.B., Assistant in Household Science.

Equipment.—Complete laboratory equipment is provided for, (a) practical cooking manipulations in large and small quantity, (b) chemical food analysis and calorimetry, (c) metabolism and animal feeding experiments. Technical control of food products, such as the official bread-baking tests, milk examination, etc., is included along with the quantitative chemical analysis of food. Modern urine and blood analysis methods, respiratory exchange, and metabolism balance experiments form the major part of the dietetics laboratory practice, but preparation and measurement of calculated diets based on these findings are also emphasized.

Admission and Prerequisites.—Students who intend to make household science their major subject must present matriculation chemistry and cooking. Both of these courses are offered during the summer session, the latter as Household Science AB. Matriculation physics and biology or physiology are strongly recommended as part of the preparation for admission to the department.

PREPARATION FOR THE MAJOR

Required: Chemistry 1A-1B (10 units), 8 (3), 5 (3); Bacteriology 1 (4).

Recommended: Physiology 1 (4); Economics 1A-1B (8); Physics 2A-2B (6); Chemistry 9 (3).

Sequence of Courses.—Three types of course sequences leading to different professions are distinguished: the teachers' training course; the hospital dietitians' course; the research or laboratory workers' course. All of these courses are identical so far as undergraduate major work in the department is concerned, but differ in the choice of courses during the graduate year and in collateral undergraduate courses.

1. The *teachers' training course* may in the fifth year be developed in either of two directions, (a) toward preparation for high school teaching and supervision, or (b) toward vocational or extension teaching. The bachelor's degree with a major in household science is necessary as prerequisite for the graduate work for either of these types of teacher training. For further information see the Announcement of the School of Education.

2. The *hospital dietitian's graduate year* follows the usual undergraduate major in household science, and requires residence at the University of California Hospital in San Francisco. The course is offered in co-operation with the University of California Medical School and hospitals, and is designed to furnish the practical as well as the theoretical training for the profession of hospital dietitian.

The undergraduate sequence recommended as preparation for this work is as follows: 101A-101B, 120A-120B, 130, 106, Biochemistry 101 (full course), Public Health Nursing, Economics 180, 182. For detailed description of the course see the Announcement of the Graduate Division.

3. *The Research or Laboratory Worker's Course* follows the undergraduate sequence, 101A-101B, 120A-120B, 106, Bacteriology 1, Biochemistry 101, Chemistry 110. Courses 125, 130, 216 and four or more units of 214 are advised for the fifth year. Problems in experimental cookery, animal feeding, human digestion or metabolism, may be undertaken as the basis for the master's thesis.

Master's Degree.—The requirements are stated in the Announcement of the Graduate Division.

Honors-Students in the Upper Division.—Students who are eligible for the honors status are urged to enroll at the beginning of their third or junior year. The recommended sequence of courses for such students is as follows: third year, course 101A-101B, Biochemistry 101; fourth year, 120A-120B, 125 or 130. Honors at graduation are awarded only on the completion of 24 units of upper division work, and maintenance of the honors status is dependent upon the attainment of consistently satisfactory grades in other subjects and of high credit in household science courses.

Summer Session.—Course AB, equivalent to the high school course in domestic science, is offered each summer. In addition, course S2, an elementary treatment of dietetics, is usually offered for nurses, housekeepers, and students who desire a brief and practical survey of this field. An advanced or seminar course and the opportunity to prosecute research are usually available also during the summer session.

Extension Service.—Through the University Extension Division a correspondence course in child feeding is now offered by the staff of the department, and further courses are in preparation. Credit toward the degree is not allowed for these or similar courses offered by other institutions.

UPPER DIVISION COURSES

101A-101B. Food Economics. (4-4) Yr.

Lectures, Tu Th, 9; laboratory, Tu Th, 1-4. Deposit, \$10. Prerequisite: Chemistry 8, 5, Bacteriology 1, and the high school course in domestic science.

The composition, production, transportation, and preservation of common foods with reference to public economy and conservation; individual selection and preparation of such food with reference to hygiene, nutritive value, flavor, and cost; an introduction to quantitative methods in food analysis.

102. Food and Dietetics. (4) II.

OKEY

Lectures, M W F, 1; laboratory, M W F, 2-4. Fee, \$5. Prerequisite: Chemistry 1A-1B and at least junior standing.

Designed to meet the needs of students planning to take nurses' training. A brief survey of food economics, including food preparation, and the field of normal and abnormal nutrition; practice in the making of dietaries; calculation and preparation of special diets, and milk formulas.

106. **Laboratory Methods in Metabolism.** (5) I. OKKY
 Lectures and laboratory, M W F, 1-5, and a conference hour to be arranged. Deposit, \$12. Prerequisite: Biochemistry 101.
 Modern methods of chemical diagnosis, including practice in qualitative and quantitative examination of gastric contents, urine, blood, milk, feces, etc. The course is designed for public health workers, laboratory technicians, and those preparing to do research in human nutrition.
110. **Institution Management.** (3) I. —
 Lectures, Tu Th, 10; field work, S, 9-12. Prerequisite: courses 120A-120B.
 The principles and practices involved in the organization and administration of institution households, hotels, restaurants, hospitals and community feeding enterprises.
112. **Extension Organization.** (3) II. —
 F, 1, and two three-hour practice periods to be arranged.
 The methods and materials involved in the organization and presentation of such scientific and economic facts and theories as may be helpful to the home-maker. Consideration of the problems of the teaching of vocational home-making under the provisions of the Smith-Hughes Act. Two periods per week of three hours each are devoted to supervised demonstrations, lectures, continuation classes, arrangement of exhibits, and other forms of extension activity. Open to seniors or graduates in household science.
- 120A-120B. **Dietetics.** (4-4) Yr. MORGAN
 Lectures, Tu Th, 11; laboratory, M W, 9-12. Deposit, \$10. Prerequisite: Biochemistry 101 (5 units), Chemistry 5.
 The quantitative basis of dietetics established through typical experiments in food analysis and calorimetry, digestion experiments, respiration and dietary records, nitrogen and mineral balances; the application of these principles to practical feeding problems of the individual and the group.
125. **Quantitative Experimental Cookery.** (3) I. M W F, 1-4. —
 Fee, \$5. Prerequisite: course 101A-101B.
 Practice in food preparation under controlled conditions; quantitative analysis of the materials and products. This course is preparatory to research in food and nutrition.
300. **Methods of Teaching Household Science.** (2) I. M W, 8. —
 Prerequisite: course 120A-120B and at least 3 units of education.
 Study of suitable equipment for teaching household science in elementary and secondary schools; planning of courses, and of single lessons; observation of classes; practice in demonstrations of food preparation and classification.
127. **The Technique of Food Preparation.** (3) II. —
 Tu Th S, 8-11. Fee, \$5.
 A critical and constructive review of technique for students planning to teach food study in the secondary schools. Open only to candidates for the teacher's recommendation offering a major or minor in household science.

- *130. The Nutrition of Development. (3) II. MORGAN
Lectures, Tu Th, 9; laboratory, F, 9-12. Prerequisite: course
120A, or Biochemistry 101.

The chemistry and physiology of intra-uterine development, lactation, and growth; normal and subnormal nutrition in infancy and childhood; practice in the solution of feeding problems; clinic and follow-up work are included.

GRADUATE COURSES

The Practice of Teaching Household Science.

Prerequisite or parallel: course 300.

Opportunity for practice teaching under direction will be available either half-year in connection with Education 320.

214. Research. The STAFF

The principles and methods of physical and biological chemistry applied to the investigation of problems concerned with food preparation and metabolism.

215. Special Studies. Either half-year. Alt. Th, 7-9. The STAFF

216. Seminar in Normal Metabolism. (2) I. MORGAN and OKEY
F, 9-11.

Recent advances in the chemistry of food and nutrition, metabolism, food economics, and dietetic therapy.

219. Seminar in Disorders of Nutrition. (2) II. F, 9-11. OKEY

299. Thesis for the Master's Degree.

* Not to be given, 1920-21.

HYGIENE

ROBERT T. LEGGE, Ph.G., M.D., F.A.C.S., Professor of Hygiene and University Physician.

JOHN N. FORCE, M.D., M.S., Gr.P.H., Associate Professor of Epidemiology.

RUBY L. CUNNINGHAM, M.D., M.S., Assistant Professor of Hygiene and Physician for Women.

LAURA CAIRNS, M.S., Associate in Hygiene.

MARGARET BEATTIE, M.A., Associate in Public Health.

CHARLES L. McVEY, M.D., Senior Physician for Men.

LUTHER M. BOYERS, A.B., M.D., Assistant Physician for Men.

LOUISE A. OLDENBOURG, M.D., Assistant Physician for Women.

PREPARATION FOR THE MAJOR IN PUBLIC HEALTH

Required: Chemistry 1A-1B (10 units); Bacteriology 1 (4); Zoology 1A-1B (9); Physics 2A-2B (6); French or German.

Recommended: Chemistry 8, 9; Economics 1A-1B.

Laboratory fees are \$5 for courses 300, 108A and 108B; \$5 additional deposit is required in each laboratory course and will be refunded, less deduction for breakage, at the end of the half-year.

Professional Course in Public Health.—The professional course in public health comprises a curriculum in sanitary engineering, hygiene, economics, veterinary science, entomology, zoology, and human nutrition, the completion of which leads to the degree of Graduate in Public Health (Gr.P.H.). For details of the curriculum the student is referred to the Circular of Information, Academic Departments.

Honors-Students in the Upper Division.—Students in the honors group may receive honors at graduation either:

1. Upon presenting a satisfactory report on a field investigation of a public health activity; or
2. Upon a thesis based on a laboratory investigation; or
3. Upon the completion of a course of reading on a special topic in public health.

Candidates for honors must prepare a programme at the beginning of their candidacy in consultation with the Committee on Public Health Study-Lists. In most cases the junior year will be spent in preliminary reading. In the senior year those students who desire to take honors on the basis of reading alone will prepare for a final oral examination; while those who desire to engage in laboratory or field investigations will prepare a thesis or report embodying their results.

The committee will recommend the exclusion from the honors group of all students who do not maintain each half-year an average of at least 60 per cent of first and second grades in all their courses and who do not complete their courses in public health with high credit.

Candidates must complete 36 units in courses chosen from the first two years of Curriculum A in Public Health.

Teachers' Recommendations.—For information see the Announcement of the School of Education.

LOWER DIVISION COURSES

1. **Military Hygiene and Sanitation.** (1) I. LEGGE
 Sec. 1, Tu, 8; Sec. 2, Th, 1.
 Prescribed for all undergraduate men during their first year of residence. Lectures and readings.
2. **Essentials of Personal and Public Hygiene.** (2) I. CUNNINGHAM
 M W, 11.
 Prescribed for all undergraduate women during their first year of residence. Lectures, readings, and recitations.
3. **Elementary Epidemiology.** (3) I. FORCE, CAIRNS, BEATTIE
 M W F, 10.
 Communicable diseases now prevalent in California; their control through individual and community endeavor. General problems of food, water, insect, contact, and carrier control. Lectures, readings, recitations, and papers.
4. **Domestic Hygiene.** (2) I. Tu Th, 11. CAIRNS
 Lectures on home sanitation. For students in home economics.
5. **First Aid for Women.** (2) II. OLDENBOURG, CUNNINGHAM, CAIRNS
 Sec. 1, Tu Th, 9; Sec. 2, Tu Th, 10; Sec. 3, Tu Th, 2.
 A course for women in the recognition and treatment of common accidents, with special emphasis upon conditions peculiar to children.
6. **Industrial Hygiene.** (2) II. M W, 11. LEGGE
 For engineering, commerce, and forestry students. General problems in the control of epidemic and occupational diseases. The sanitation of labor camps and factories, accident prevention, employees' welfare and compensation laws. Lectures, recitations, papers, and field surveys.
7. **First Aid for Men.** (1) II. Tu Th, 10. MCVEY
 A course for men in the recognition and emergency treatment of common accidents. Class limited to eighty.
9. **Home Care of the Sick.** (1) II. —
 A course for women in general therapeutic measures of use in caring for invalids at home.

UPPER DIVISION COURSES

101. **Child Hygiene.** (3) II. M W F, 10. LEGGE
 Primarily for students who intend to become teachers, but open also to students of economics. The hygiene of early child life; the cause and prevention of infant mortality; health supervision of school children and the practical sanitation of schools. Lectures, readings, recitations, papers, and field assignments.

104. Public Health Administration. (3) II. **FORCE**
Lectures, M W, 9; field work, S, 9-12.
Lectures, readings, individual reports and field assignments on public health administration and procedure. Open only to students who have completed one year of the curriculum in public health.
107. Advanced Epidemiology. (3) I. M W F, 9. **FORCE**
Lectures, readings, and individual reports on communicable diseases. Open only to students who have completed one year of the curriculum in public health.
- 108A-108B. Public Health Laboratory. (5-5) Yr. **FORCE, BEATTIE**
M Tu W Th F, 1-4. Prerequisite: Bacteriology 101.
Laboratory practice in the detection of communicable diseases.
115. Sanitary Science and Industrial Hygiene. (3) I. **LEGGE**
M W F, 3.
Open only to students in the curriculum in public health nursing.
116. The Control of Communicable Diseases. (3) II. M W F, 3. **FORCE**
Open only to students in the curriculum in public health nursing.
200. The Teaching of Hygiene. (2) I. **CAIRNS and Assistants**
Laboratory: Sec. 1, Tu Th, 8-11; Sec. 2, Tu Th, 1-4.
Methods of presenting the elements of hygiene and sanitation to children in graded schools.

GRADUATE COURSE

201. Research in Hygiene. **FORCE**
Special problems worked out in the field or in the laboratory of hygiene. Credit value to be fixed in each case.

IRRIGATION

BERNARD A. ETCHEVERRY, B.S., Professor of Irrigation Engineering.

SIDNEY T. HARDING, B.S., Associate Professor of Irrigation.

Courses 101, 102A, 102B, 103, 104, and 112 are designed to meet the needs of engineering students who wish to make a specialty of irrigation. They appear as part of the course in Irrigation Engineering in the College of Civil Engineering. Courses 101, 104, 105A, 105B, 113, and 115 are designed for students in the College of Agriculture. Courses 101, 103, 113, are also open to other students who have junior standing.

Students will be recommended for honors on the same basis as in civil engineering.

UPPER DIVISION COURSES

Junior standing is prerequisite to courses 103, 104, and 113.

101. Irrigation Institutions and Economics. (2) II HARDING
Sec. 1 (for students of engineering only), M W, 10; Sec. 2, M W, 8.
Prerequisite: course 103 or 113.

Water rights, irrigation institutions and organizations.

- 102A. Irrigation Engineering. (2) II. Tu Th, 11. ETCHEVERRY
Prerequisite: Civil Engineering 110 or Mechanical Engineering 103A.

Investigation and general planning of irrigation systems; conveyance of water; silt problems; design of canals, tunnels, flumes, pipelines, inverted siphons.

- 102B. Irrigation Engineering. (2) I. Tu Th, 9. ETCHEVERRY
Prerequisite: course 102A.

Principles of design of diversion weirs, headworks, wasteways, sand boxes, falls, checkgates, lateral headgates, road crossings, special types of distribution systems, measuring devices.

103. Agricultural Use of Water and Irrigation Practice. (2) I. ETCHEVERRY
Tu Th, 11.

Sources of water supply; disposal of irrigation water applied to the soil; water requirement of crops; duty of water; preparation of land and methods of irrigation; small pumping plants.

For engineering students, but open to other students excepting those in the College of Agriculture, for whom course 113 is offered.

104. Drainage. (2) II. Tu Th, 8. ETCHEVERRY

The structure of soils and its relation to drainage; planning of drainage systems for overflow, waterlogged and alkali lands; organization of drainage districts.

- 105A. Agricultural Hydraulics and Elements of Irrigation Engineering. (3) II. Tu Th, 10, and 1 hour to be arranged. ETCHEVERRY
Prerequisite: Civil Engineering 1A-1B.
Principles of hydraulics as applied to irrigation systems. The elements of irrigation projects; the conveyance of water in canals, tunnels, flumes, and pipe-lines. Open to students in the College of Agriculture. Not open to students who receive credit for course 102A.
- 105B. Elements of Irrigation Engineering. (2) I. Tu Th, 8. ETCHEVERRY
Prerequisite: course 105A.
Irrigation structures, their function and proportions; systems of distribution; measurement of water and measuring devices.
112. Irrigation Design. (2 or 3) I. Tu Th, 1-4. ETCHEVERRY
Prerequisite: course 102A, Civil Engineering 108A-108B.
The design of structures such as flumes, drops, inverted siphons, and headgates, with estimates of cost.
113. Agricultural Use of water and Irrigation Practice (3) I. HARDING
Sec. 1, Tu Th S, 9; Sec. 2, Tu Th S, 10; Sec. 3, Tu Th S, 11.
Soil moisture and plant growth; disposal of irrigation water applied to the soil; water requirements of crops; duty of water; preparation of land and methods of irrigation; farm ditches and structures; small pumping plants; measurement of water. For students in the College of Agriculture, but open to other students.
115. Irrigation Drawing. (2) I. Tu Th, 1-4. HARDING
Prerequisite: course 105.
Drawing and making estimates of typical irrigation structures as used on the farm. For students in the College of Agriculture.
119. Undergraduate Thesis Course. (2) Either half-year.

GRADUATE COURSES

202. Advanced Irrigation Design. (2) II. Tu Th, 1-4. ETCHEVERRY
Prerequisite: course 112. Open to specially prepared seniors.
207. Operation and Maintenance of Irrigation Systems. (2) I. HARDING
Prerequisite: courses 113 and 105 for agricultural students; courses 103 and 102 for engineering students. Open to specially prepared seniors.
208. Seminar in Irrigation. Either half-year. ETCHEVERRY, HARDING
Conferences on topics concerning the development of irrigation industry. Open to specially prepared seniors.
299. Thesis for the Master's Degree.

ITALIAN

RAFFAELLO PICCOLI, Litt.D., Lecturer in Italian Literature and Institutions (to Dec. 31, 1920).

MARIA TERESA TOMMASINI, A.B., Associate in Italian.

PREPARATION FOR THE MAJOR

Required: 13 to 16 units of lower division courses in Italian; 6 units of some other Romanic language.

Recommended: History; English; modern language.

NOTE.—The courses to be given by Professor Piccoli will be announced later.

LOWER DIVISION COURSES

A-B. Elementary Italian. (5-5) Yr. M Tu W Th F, 8. **TOMMASINI**
Essentials of grammar. Short stories by contemporary writers.

C-D. Intermediate Italian. (3-3) Yr. M W F, 9. **TOMMASINI**
Prerequisite: course A-B.

A detailed study of syntax; dictation and memorizing of prose and verse; conversation; selection from modern texts.

UPPER DIVISION COURSES

103A-103B. Modern Italian. (3-3) Yr. M W F, 10. ———
Prerequisite: course C-D, or its equivalent, or a special examination.
A detailed study of standard authors, prose and verse, with dictation and reports on assigned themes.

***105A-105B. The Fifteenth and Sixteenth Centuries.**
A study of the chief writers of this period, with lectures and reports by the students.

107A-107B. Survey of Italian Literature. (2-2) Yr. Tu, Th, 11. ———
A study of the principal writers with selections from their most important works.

108A-108B. The Italian National Novel. (3-3) Yr. M W, alt. F, 11.
I, D'Annunzio, Verga. II, Deledda, Fogazzaro.

GRADUATE COURSES

201A-201B. Dante, Petrarch, and Boccaccio. (2-2) Yr.

***205A-205B. The Civilization of Modern Italy.** (2-2) Yr.

* In residence first half-year only, 1920-21.

* Not to be given, 1920-21.

JURISPRUDENCE

WILLIAM CAREY JONES, M.A., Professor of Jurisprudence and Director of the School of Jurisprudence.

ORRIN K. McMURRAY, Ph.B., LL.B., Professor of Law.

CURTIS H. LINDLEY, LL.D., Honorary Professor of Law of Mines and Water.

ALEXANDER M. KIDD, A.B., LL.B., Professor of Law.

EDWARD ELLIOTT, Ph.D., Professor of International Law and Politics.

MATTHEW C. LYNCH, J.D., Professor of Law.

AUSTIN T. WRIGHT, A.B., LL.B., Professor of Law.

MAX RADIN, LL.B., Ph.D., Professor of Law.

G. H. ROBINSON, A.B., LL.B., S.J.D., Professor of Law

WILLIAM EDWARD COLBY, LL.B., Lecturer on Law of Mines and Water.

JOHN U. CALKINS, JR., J.D., Lecturer in Law.

BARBARA N. GRIMES, J.D., Lecturer in Law and Social Economics.

M. W. DOBEZHENSKY, J.D., Lecturer in Commercial Law.

ROSAMOND PARMA, J.D., Librarian of the Law Library.

SCOPE OF THE SCHOOL OF JURISPRUDENCE

The design of the School of Jurisprudence is to furnish instruction, whether historical, theoretical, or practical, in the whole orbit of law, international, public, and private. On the historical and theoretical side it offers courses in comparative law, Roman law, jurisprudence, or the theory of law, and on various topics in the history of the common law.

On the practical side, it offers a complete professional curriculum, based on either two or three years of academic training. The main body of this curriculum is of general application, constituting a preparation for the practice of law in any jurisdiction founded on the common law. At the same time, emphasis is given to courses which direct attention to local legal conditions and practice in the Western states such as mining law, water law, and code procedure. The case method of instruction is used in the professional courses.

BOALT HALL OF LAW

The School of Jurisprudence occupies the Boalt Memorial Hall of Law, a building designed exclusively for purposes of legal instruction. It was erected through the generosity of the late Mrs. Elizabeth Boalt, supplemented by subscriptions from California lawyers, as a memorial to her husband, the late John H. Boalt.

Law Library.—The law library contains a valuable collection of over twenty-five thousand volumes, and is being constantly extended and im-

² In residence second half-year only, 1920-21.

proved. It is conveniently placed in connection with the reading room in Boalt Hall of Law.

Law Library Fee.—A law library fee of \$12.50 each half-year is charged all students, regular and special, who are registered in more than one professional course in law. All money accruing from such fees is devoted to the purchase of books for the law library of the School of Jurisprudence.

Admission to the Professional Curriculum.—The normal minimum time for the completion of the combined academic and legal curriculum is six years. This time may be somewhat diminished by the student taking extra units in the lower division, or by attending summer sessions in the undergraduate years. The School of Jurisprudence maintains a four-year curriculum and a three-year curriculum. While students are encouraged to obtain the A.B. degree before entering the School of Jurisprudence, those who have full junior standing will, for the present time, be admitted to the four-year curriculum, and those who have full senior standing will be admitted to the three-year curriculum.

Students who enter the legal curriculum with junior standing may obtain the A.B. degree on the satisfactory completion of two years of such curriculum. Such students may not anticipate in the first year of the four-year curriculum the legal courses provided for the second year thereof.

Students who enter the legal curriculum with senior standing may obtain the A.B. degree on the satisfactory completion of the first year of such curriculum.

The first year's courses of the three-year curriculum, or the first and second year's courses of the four-year curriculum, give the essential and necessary foundation for subsequent law work, and their completion is a prerequisite to entrance to the courses of the later years.

Moot Courts.—Law clubs are organized which hold moot courts with the advice and co-operation of members of the faculty. Students in the first year of the three-year curriculum and second year of the four-year curriculum are expected to prepare and argue several cases during the year. Upper class students supervise and assist in this work. Special sessions of these courts are planned so that students of the final year taking courses in Evidence and Practice may conduct the trial of cases which are specially prepared.

Preliminary University Work.—The student entering the University with the intention of pursuing the course in law is advised to map out his undergraduate curriculum with great care. He is invited to consult members of the School of Jurisprudence in respect thereto.

The intending student of law who is prepared to do so is advised to pursue a full classical curriculum. It is confidently believed that the best results will thereby be secured. If such a course is not attainable, the student is advised to take as thorough a course in Latin as possible. Such study will be profitable to him in many ways and will open up the possibility of pursuing scholarly research work in civil law and in jurisprudence in the graduate years. The attention of the law student is called to the course in elements of law Latin offered by the Department of Latin.

Every student of law should normally pursue a systematic course in history, political science and economics. He is likewise advised to make careful selection of courses in the Departments of English and Philosophy.

Whatever direction the student's pre-legal training may take, whether in history, letters, pure science, or applied science, the importance can not be too strongly impressed upon him of pursuing systematic and thorough courses in one or two departments rather than of making up a curriculum of fragmentary and unrelated subjects in a number of departments.

FURTHER INFORMATION

For fuller information in regard to the law school, consult the annual Announcement of the School of Jurisprudence.

ACADEMIC COURSES IN LAW

The following courses are of general cultural interest and may be elected by undergraduate students in the College of Letters and Science.

10A-10B. Elementary Law. (2-2) Yr. Tu Th, 9. ROBINSON

The general principles of the law. Students who intend to continue the study of law are advised to take this course in their sophomore year.

18A-18B. Commercial Law. (2-3) Yr. DOBRZENSKY
I, M W, 8; II, M W F, 8.

For students in the College of Commerce. Students who intend to pursue the professional curriculum are advised ordinarily not to take this course.

103A-103B. Principles of International Law. (2-2) Yr. M W, 10. ELLIOTT

The general principles of international public law; use of standard texts, illustrative documents and cases.

105A-105B. Roman Law; Jurisprudence. (2-2) Yr. M W, 2. RADIN

History of the public and private law of the Romans; systematic and historical exposition of Roman Law; with comparative views of the chief modern systems.

107A-107B. Legal History. (2-2) Yr. Tu Th, 2. McMURRAY

An historical survey of the principal English and American legal institutions.

109. School Legislation of California. (2) II. Tu Th, 2. GRIMES

An interpretative and critical study of California school law as a resultant of social and political conditions and forces.

118A-118B. Advanced Commercial Law. (2-3) Yr. RADIN

I, Tu Th, 8; II, Tu Th S, 8.

The study of cases of importance. For senior students in the College of Commerce, but open to other upper division students with the consent of the instructor.

118C. Maritime Law. (2) II. Tu Th, 9. WRIGHT

Attention is called to the following courses having legal implications:

Elementary Roman Law [See Latin 121]. (2) I. Tu Th, 11. MERRILL

The Institutes of Justinian.

Law Latin [Latin LA-LB]. (3-3) Yr. M W F, 10. MERRILL

Greek Law [Greek 153]. (2) II. Tu Th, 2. CALHOUN

PROFESSIONAL COURSES
THREE-YEAR CURRICULUM

Prerequisite: at least senior standing. The student must complete the curriculum of the first year before entering on that of the second and third years. All the courses in the second and third years are elective, but are distributed by years and are so arranged in the schedule of exercises. The student is advised to observe this arrangement by years, so as to secure the advantage of proper sequence of study and avoid conflict in hours of lecture.

First Year

- 111A-111B. The Law of Property, First course. (4-4) Yr. ROBINSON
I, M W, 11, F, 8; II, M W, 11, F, 10.
- 112A-112B. The Law of Torts. (3-2) Yr. JONES
I, Tu Th, 11, F, 10; II, Tu Th, 11.
- 113A-113B. Criminal Law and Procedure. (2-2) Yr. Tu Th, 9. KIDD
- 115A-115B. The Law of Contracts. (4-4) Yr. M W F, 9. LYNCH
119. Common Law Procedure. (2) I. Tu Th, 8. WRIGHT
120. The Law of Associations, First course (Agency). (2) II. WRIGHT
M W, 8.
122. Equity, First course. (2) II. Tu Th, 8. LYNCH

Second Year

217. The Law of Property, Second course. (3-3) Yr. McMURRAY
M W F, 10.
202. Constitutional Law. (2-2) Yr. Tu Th, 9. JONES
225. Law of Associations, Second course (Agency, Partnership, Corporations). (3-3) Yr. M W F, 9. WRIGHT
227. Equity, Second Course. (a) Equity, (b) Trusts. (2-3) Yr. LYNCH
I, Tu Th, 10; II, Tu Th, 10, F, 8.
230. Business Law. (2-2) Yr. Tu Th, 8. KIDD
A study of special topics in negotiable instruments, mortgages, trust deeds, banking, with a view to developing the place of these subjects in legal theory and in the modern business world.
231. Suretyship. (2) I. M W, 11. RADIN
235. Damages. (2) II. Tu Th, 11. RADIN
216. The Law of Mines, First course. (2) I. Tu Th, 8. COLBY
A lecture course dealing primarily with the American law governing mines and mineral lands situated on the Public Domain embraced within the western states and territories.
210. The Law of Water, First course. (2) II. Tu Th, 8. COLBY
A lecture course supplemented by a critical study and discussion of leading cases and mainly devoted to a consideration of the water law and rights in force in the western states.
- 203A-203B. Seminar in International Law. (2-2) Yr. ELLIOTT

Third Year

221. The Law of Evidence. (2-2) Yr. Tu Th, 11. KIDD
229. Code Procedure. (2-2) Yr. M W, 8. CALKINS
 Analysis and development of the fundamental notions underlying the American Reformed System of Civil Procedure.
240. Conflict of Laws. (2-2) Yr. Tu Th, 10. McMURRAY
224. The Law of Sales. (3) I. M W F, 10. LYNCH
- *226. The Law of Public Service. (2-2) Yr. ROBINSON
208. The Law of Municipal Corporations. (2) II. W, 10-12. JONES
243. Insolvency and Bankruptcy. (2) II. M W, 9. ROBINSON
218. The Law of Mines and Water, Second course. (1) COLBY
250. The Law of Persons. (2) II. Tu Th, 8. WRIGHT
209. Anglo-American Jurisprudence. (2) I. RADIN
 A research course which will be devoted to a study of the definition and history of fundamental legal concepts, with particular reference to the present terminology and classification of the law.
245. Comparative Law. (2) II. RADIN
 Studies in the comparative history of selected legal ideas and institutions.
244. Admiralty. (2) I. M W, 11. WRIGHT
254. Seminar in Admiralty and Maritime Law. (2) II. WRIGHT
 Prerequisite: course 224.
233. Practice. (2) II. Tu Th, 2. KIDD
 In connection with this course students are expected to draft the ordinary legal documents of office practice and the papers required in the different stages of action and special proceedings.
207. Seminar in Roman Law. (2) I. RADIN
260. Labor Law. (2) I. KIDD
259. Administrative Law. (2) I. M W, 9. ROBINSON

FOUR-YEAR CURRICULUM

Prerequisite: at least junior standing. Only the first and second years will be offered in 1920-21.

*First Year**Prescribed Courses*

- 115A-115B. The Law of Contracts. (4-4) Yr. M W F, 9. LYNCH
- 112A-112B. The Law of Torts. (3-2) Yr. JONES
 I, Tu Th, 11, F, 10; II, Tu Th, 11.

* Not to be given, 1920-21.

107A-107B. Legal History. (2-2) Yr. Tu Th, 2. McMURRAY
May be taken in either first or second year.

119. Common Law Pleading. (2) I. Tu Th, 8. WRIGHT

122. Equity, First course. (2) II. Tu Th, 8. LYNCH

Elective

103A-103B. Principles of International Law. (2-2) Yr. ELLIOTT
M W, 10. May be taken in either first or second year.

*Second Year**Prescribed Courses*

111A-111B. The Law of Property, First course. (4-4) Yr. ROBINSON
I, M W, 11, F, 8; II, M W, 11, F, 10.

105A-105B. Roman Law: Jurisprudence. (2-2) Yr. M W, 2. RADIN
Instead of Jurisprudence 105A, students may take Latin 121: Institutes of Justinian.

120. The Law of Associations, First course (Agency). (2) II. WRIGHT
M W, 8.

227. Equity, Second course. (a) Equity. (b) Trusts. (2-3) Yr. LYNCH
I, Tu Th, 10; II, Tu Th, 10, F, 8.

Elective

113A-113B. Criminal Law and Procedure. (2-2) Yr. Tu Th, 9. KIDD

251. Quasi Contracts. (2) I. Tu Th, 11. RADIN

LATIN

WILLIAM A. MERRILL, Ph.D., L.H.D., Professor of the Latin Language and Literature.

LEON J. RICHARDSON, A.B., Professor of Latin.

CLIFTON PRICE, Ph.D., Associate Professor of Latin.

HERBERT C. NUTTING, Ph.D., Associate Professor of Latin.

OLIVER M. WASHBURN, A.B., Associate Professor of Classical Archaeology.

MONROE E. DEUTSCH, Ph.D., Associate Professor of Latin.

TORSTEN PETERSSON, Ph.D., Assistant Professor of Latin.

PREPARATION FOR THE MAJOR

Required: two years of high school Latin and 12 units of Latin in the University, or three years of high school Latin and 9 units of Latin in the University, or four years of high school Latin and 6 units of Latin in the University.

Recommended: as much work as may be possible in Greek, ancient history, French, and German.

Honors-Students in the Upper Division.—Students in the honors-group whose major subject is Latin may receive honors at graduation by passing a special examination at the end of the senior year, or by maintaining a superior quality of work throughout the course. At the beginning of each half-year they should submit their study-lists for approval to the authorized representative of the department. They will then proceed with their work under the supervision of their instructors, attending conferences and making such reports of progress as may be asked for. At the close of each half-year the department will recommend the exclusion from the honors-group of students who have fallen below the standard and the promotion to the group of those whose work merits distinction.

Courses in Other Departments.—As part of the 24 units required of candidates for honors in Latin, upper division courses in the following subjects will be accepted: Greek, ancient history, Roman law, linguistics, Sanskrit, philosophy, and certain upper division courses in English or foreign languages dealing with literary types. The number and character of acceptable courses will vary with circumstances, and will be decided for each student when his proposed study-list is submitted for approval.

LOWER DIVISION COURSES

Courses C and D are intended mainly for students who enter with two or three years' preparatory Latin.

Two years of high school Latin are prerequisite to courses C, LA-LB, G.

C. Third-Year Latin: Ciceronian Prose. (3) Either half-year.

PRICE, NUTTING, DEUTSCH

I, Sec. 1 (Deutsch), M W F, 10; Sec. 2 (Nutting), M W F, 3; II, (Price), M W F, 8.

Reading of several of Cicero's orations, with attention to their historical setting. Training in understanding Latin in the Latin order, systematic study of vocabulary and review of forms. Not open to students who present Cicero at matriculation.

D. Fourth-Year Latin: Augustan Poetry. (3) Either half-year.

PRICE, NUTTING, DEUTSCH

I (Price), M W F, 10; II, Sec. 1 (Deutsch), M W F, 10; Sec. 2 (Nutting), M W F, 3. Prerequisite: three years of high school Latin or course C in the University. Not open to students who present Virgil at matriculation.

Selections from the Aeneid of Virgil; reading from Ovid may be substituted in part. The relation of the Aeneid to its time. Much attention to the reading aloud of the Latin. Study of the Virgilian hexameter, and of Virgil's style and means of expression.

LA-LB. Elements of Law Latin. (3-3) Yr. M W F, 10. / MERRILL

This course is planned for future students of the law. The aim is to acquaint the student with the fundamental legal conceptions that are found in Roman law. Relatively slight emphasis is placed on the Latin, although accurate translation is insisted on. Latin L is not a substitute for Latin 1 or 5.

1. Cicero and Pliny (or the *Somnium Scipionis*). (3) Either half-year.

PRICE, PETERSSON

Prerequisite: four years of high school Latin or course D in the University.

I, Sec. 1 (Price), M W F, 9; Sec. 2 (Petersson), M W F, 10; II, (Price), M W F, 10.

The *Cato Maior* of Cicero and the Letters of Pliny, or Scipio's Dream. Study of these works as literature. Much practice in reading aloud, with attention to pronunciation, phrasing and emphasis; training in understanding Latin in the Latin order.

5. Horace's Odes and Epodes. (3) Either half-year. PRICE, NUTTING

I (Price), M W F, 8; II, Sec. 1 (Price), M W F, 9; Sec. 2 (Nutting), M W F, 10. Prerequisite: course 1.

Selections from Horace; study of the more significant poems. Attention to the metres used most frequently by the poet. Horace's literary art.

Immediately after the completion of course 5 students will be admitted to course 102, or, in case of those who complete course 5 during the first half-year, to course 106. Courses 102 and 106 must, however, be completed before the student may enter any other upper division course.

Course in Sight Translation

- 1B. Sight Translation, I. (1) II. Tu Th, 2.

DEUTSCH

Prerequisite: two years of high school Latin. Intended especially for freshmen in any college, but may be taken by more advanced students, in either the lower or upper division, who do not pursue other courses in Latin; or without credit by advanced students in Latin.

Practice in reading at sight from easy authors, particularly Caesar.

Courses in Latin Writing

The object of the courses in Latin writing is, first, training in forms and syntax; later, in idiom, style, and periodology through imitation of classical examples; finally, in original composition.

- G. Preliminary Course. (2) I. Tu Th, 10.

PETERSSON

Review of forms, vocabulary, and general principles of syntax. Practice in speaking and writing Latin.

- 3A-3B. Latin Composition, I. (1-1) Yr. Th, 1, 2.

PETERSSON

Prerequisite: three or four years of high school Latin, or course G. Exercises in writing Latin prose narrative. See also courses 104, 112, 113, and 285.

COURSE REQUIRING NO KNOWLEDGE OF LATIN

89. Introduction to Classical Archaeology. (2) II. Tu Th, 3. Prerequisite: Graphic Art 1A or junior standing.

WASHBURN

A survey of the history of the science and of the aims and achievements of the principal workers in the field; the more important excavations and their results; the publications; the subdivisions of the subject, with an outline of the results and of the unsolved problems. Lectures illustrated by lantern slides and by books, photographs, etc.

UPPER DIVISION COURSES

Group I

The completion of courses 102 and 106 is prerequisite to admission to any of the upper division courses listed in Group II.

102. Catullus and Livy. (3) I.

NUTTING, PETERSSON

Sec. 1 (Petersson), M W F, 9; Sec. 2 (Nutting), M W F, 2. Prerequisite: course 5.

The most famous of Catullus' poems and selections from Livy's Histories. Continued attention to reading Latin aloud and at sight.

106. Tacitus and Plautus. (3) II.

NUTTING, PETERSSON

Sec. 1 (Petersson), M W F, 9; Sec. 2 (Nutting), M W F, 2. Prerequisite: courses 5 and 102; but students who complete course 5 during the first half-year will be permitted to take 106 before 102.

The shorter works of Tacitus (the *Agricola* or *Germania*) and one of Plautus' comedies. Attention to the methods of production of a Roman comedy and to the most common dialogue metres.

Group II

110. Horace: Satires and Epistles. (2) II. Tu Th, 8. PRICE
Lectures on Roman satire with particular reference to Horace; study of the systems of philosophy known to the Romans; rapid reading of such satires and epistles as portray the private and social life of the Augustan Age and give a clear understanding of the poet himself.
115. Roman Elegiac Poetry. (2) I. M W, 9. DEUTSCH
Reading and interpretation of the more important poems of Tibullus and Propertius; some attention will be paid to the history of the elegiac couplet; study of the style of the two poets, particularly of Propertius.
116. Ovid: Fasti. (2) I. M F, 1. RICHARDSON
In connection with the reading and interpretation of the poem, attention will be given to Roman religion and folklore, and to modern parallels.
117. Virgil: Georgics. (2) II. M F, 1. RICHARDSON
Reading and interpretation of the poem; sources of Virgil's ideas; motives and purposes of the poet; influence of the poem, both in its own age and subsequently. Special attention is given to the reading of Latin hexameter verse.
- 118A. Tacitus: Histories. (2) I. Tu Th, 10. NUTTING
A study of the period following the death of Nero, with some attention to the style of Tacitus and his characteristics as an historian.
119. Patristic Latin. (2) I. M W, 11. MERRILL
St. Augustine's Confessions and the Christian Hymn Writers. Although considerable attention is paid to the language, the treatment is chiefly literary and aesthetic. All the Confessions is read as a psychological study, and an essay is required from students. The hymns are illustrated by metrical translations in English. When possible the ancient melody is exhibited.
120. Martial and Juvenal. (2) II. M W, 11. MERRILL
Society under the Caesars. Two satires of Juvenal will be read privately in addition to those discussed publicly. All of the epigrams in Post's edition of Martial are read with comment on the metres and the social forces of the age. Metrical translations are read publicly, as far as they occur in English literature. The reading of Juvenal is cursory, but with attention to his attacks on the society of his time. A paper is usually required.
121. Elementary Roman Law. (2) I. Tu Th, 11. MERRILL
The Institutes of Justinian. This course may be reached either by way of course L, Elements of Law Latin, or by the regular curriculum of the Latin Department after course 106. It is intended for Latin specialists who wish to know something about Law Latin and the Roman Law, and for students in the pre-legal course who prefer to gain their knowledge of Roman Law from original sources. Special-

ists in history and philosophy may also be admitted, if qualified in the judgment of the instructor. Occasionally the course is extended through two half-years; in such event Robinson's *Selections from the Roman Law* is read in the second half-year. This course is also listed in the department of jurisprudence.

- *126. Quintilian: *Institutio Oratoria*. (2) I. M F, 2. RICHARDSON
Education among the Romans; oratory in public and private life; the influence of Quintilian; comparison of his ideas with those of his predecessors and followers.
128. Silver and Late Latin. (2) I. Tu Th, 8. PRICE
Lectures on the principles and forces that caused the decline and breakdown of the classical language. Illustrative material is taken from Livy, Tacitus, Pliny, Seneca and post-classical authors.
139. Roman Comedy. (2) I. Tu Th, 9. PETERSSON
From five to eight plays of Plautus and Terence. Relation to the Greek drama and influence on modern comedy; dramatic performances in Rome and the place of the theatre in Roman life. The language and versification are studied only in so far as they contribute to an understanding of the plays.
- 140B. Latin Grammar: Syntax of the Verb. (2) I. Tu Th, 2. NUTTING
A survey of the field of verb constructions in Latin. The work is based in part upon a text; the more important questions are treated in lectures, with illustration of method in the investigation of original problems.
153. Roman Private Life. (2) II. Tu Th, 11. WASHBURN
Prerequisite: a reading knowledge of Latin; French or German will be helpful.
An account of the Roman family and its maintenance; name; marriage; children and education; slaves; clients; the house and its furnishings; daily programme; meals, the bath, the *commisatio*; burial; trades and professions. Students are expected to familiarize themselves with the contents of Johnston's *Private Life of the Romans*. Topical study by members of the class.
177. Life of Caesar. (2) II. M W, 9. DEUTSCH
Caesar's career will be studied from the sources; Suetonius' life will be read in class, while selections from other Latin authors and English translations of Greek sources will be read privately.
181. Select Titles from the Digest. (3) II. MERRILL
Books 18, 19, 20, 21, and 13.7, being part of the law of Contracts. The previous consent of the instructor must be obtained before registration in this course. It is open only to students who have done successful work in course 121. Course 181 is listed also in the department of jurisprudence.

* Not to be given, 1920-21.

192. Pompeii. (2) I. Tu Th, 11.

WASHBURN

Prerequisite: junior standing. A reading knowledge of French, Italian, or German will be useful.

The history of the city, its destruction and excavation. The public buildings; fora, temples, theatres, baths, etc.; the houses; trades, art, inscriptions. Students will familiarize themselves with the contents of Mau, *Pompeii, its Life and Art*. Assigned readings and reports.

- 199A-199B. Special Study. (1-3; 1-3) Yr.

The STAFF

Qualified students who desire to pursue privately some definite investigation may be permitted to do so upon approval of their application by the department. Such students will register for the course and report at intervals to the instructor in charge of their work. Credit will be determined for each student (1-3 units).

300. Teachers' Training Course. (3) II. M W F, 2.

RICHARDSON

Prerequisite: senior or graduate standing.

Lectures on teaching Latin in secondary schools. Bibliography of the subject. Training in reading Latin aloud. Exercises in Latin conversation. Discussion of special points, such as the aims of the study of Latin, high school Latin curricula, college entrance requirements, correlation of Latin with other high school studies, and the like.

Courses in Latin Writing

- 104A-104B. Latin Composition, II (1-1) Yr. Tu, 1.

NUTTING

Prerequisite: course 3A-3B. Students may be promoted into this course from course 3A-3B at midyear, in special cases.

Writing of Latin in periodic style.

- 112A-112B. Latin Composition, III. (1-1) Yr. Tu, 1.

DEUTSCH

Prerequisite: course 104A-104B.

Translation of English selections.

- 113A-113B. Latin Composition, IV. (1-1) Yr.

MERRILL

Prerequisite: course 112A-112B.

Original Latin essays; practice in narrative and argument. This course is taken ordinarily only by candidates for the Ph.D. degree, for whom it is prescribed. See also course 285.

GRADUATE COURSES

- 234A-234B. Latin Seminar. (3-3) Yr. Tu, 4; S, 10-12.

MERRILL

Criticism and interpretation of the *Silvae* of Statius. Training in philological method and in textual criticism. The main purpose of the seminar is to fit students for independent original work in Latin philology. The members of the seminar are expected to learn all that is known about a small selection from the work of the author studied; the constitution of the text in the light of the contributions of scholars; understanding of the work as a literary product. There is much individual research, the results of which are presented to the seminar from time to time. Required of all candidates for higher degrees who make Latin their major subject.

283A-283B. Classical Archaeology. (2-2) Yr.

WASHBURN

Original Roman coins of the imperial period will be the basis of the work. Required of all candidates for higher degrees who make classical archaeology their major subject.

285. Advanced Latin Composition. (1) Either half-year.

NUTTING

This course treats the facts of Latin syntax from the point of view of high school teaching. Critical study of the problems of presentation; preparation of English exercises to be rendered into Latin; collection of material bearing upon the style and idiom of Cicero.

291. Cicero. (3) II.

PETERSSON

Reports and discussions. Intensive study of one phase of Cicero's activity, or of a limited period of his life, or of a single oration or essay. The first two weeks will be devoted to a rapid review of Cicero's life.

299. Thesis for the Master's Degree. (2).

The STAFF

LIBRARY SCIENCE

HAROLD L. LEUPP, A.B., Librarian.

SYDNEY B. MITCHELL, M.A., Associate Librarian and Head of Accessions Department.

EDITH M. COULTER, A.B., B.L.S., Reference Librarian.

NELLA J. MARTIN, A.B., Senior Assistant in the Library.

AGNES M. COLE, B.S., B.L.S., Senior Assistant in the Library.

The courses in library science are planned as a unit to give the essentials of library training. They are open only to graduates, seniors and juniors who expect to take all four courses. Graduates, and seniors whose schedules and requirements permit, may take them all in one year. Undergraduates are advised whenever possible to take courses 101 and 102 in the senior year and to include 103 and 104 in a fifth or graduate year. Juniors whose applications are accepted must complete 101 and 102 as a condition of admission to 103 and 104.

The library science courses are not open to special students. As the classes will be limited in numbers, those interested should make application in person to the Librarian before instruction begins. Before completion of the courses students will be required to demonstrate ability to use the typewriter with accuracy and a reasonable degree of speed. If possible, typewriting should be learned beforehand.

PREPARATION FOR THE MAJOR

Recommended: French and German. (A reading knowledge of both languages will be required for admission to these courses beginning 1921-22.)

UPPER DIVISION COURSES

Junior standing is prerequisite to courses 101A-101B, 102A-102B.

Senior standing is prerequisite to courses 103A-103B, 104A-104B.

101A-101B. Cataloguing and Classification. (3-3) Yr.
M W F, 8.

MARTIN

The study of the card catalogue with consideration of the problems of author and title entries as illustrated by typical examples; the assignment of subject headings. Instruction given in class will be followed by actual cataloguing of books selected in illustration of different problems. The arrangement of books on the shelves, that is, their classification, will be studied with particular reference to the Dewey decimal system, but also with some attention to the Library of Congress scheme.

102A-102B. Bibliography. (3-3) Yr. M W F, 9. COULTER, MITCHELL

Dictionaries, encyclopaedias, indexes, handbooks, directories, and general works of reference, subject and trade bibliographies, periodicals and society publications, atlases and maps, United States government publications, and California state documents. Practice in the preparation of reading lists and bibliographies. Lectures, reports, and problems.

103A-103B. Library Administration and Extension. (3-3) Yr.

Tu Th S, 9.

MITCHELL and Assistants

Brief outline of library history and of library development and legislation in the United States. Organization of different types of libraries. Library planning and furnishing. Library support and government; office management, care and filing of records and correspondence; library budgets and accounts; supplies; ordering of books and periodicals; accessioning. Catalogue routine. Loan department problems, charging systems, branches, stations, traveling libraries, interlibrary loans. Work with children and schools. Extension and publicity.

104A-104B. The Study and Selection of Books. (3-3) Yr.

M W F, 2.

COLE and Assistants

History of printing and of books. Present-day book making and printing, style and arrangement of type, preparation of copy and correction of proof. Book paper, book illustration. Binding, materials and methods, editions, publishers. Selection of books for libraries of different types; study of guides, standard lists and current book reviewing periodicals; evaluating books and making book notes; critical examination of a selected list of new publications.

MATHEMATICS

- MELLEN W. HASKELL, Ph.D., Professor of Mathematics.
 GEORGE C. EDWARDS, Ph.B., Professor of Mathematics, Emeritus.
 DERRICK N. LEHMER, Ph.D., Professor of Mathematics.
 FLORIAN CAJORI, Ph.D., Sc.D., LL.D., Professor of the History of Mathematics.
 CHARLES A. NOBLE, Ph.D., Professor of Mathematics.
 THOMAS M. PUTNAM, Ph.D., Professor of Mathematics and Dean of the Undergraduate Division.
 JOHN H. McDONALD, Ph.D., Associate Professor of Mathematics.
 BENJAMIN A. BEENSTEIN, Ph.D., Assistant Professor of Mathematics.
 FRANK IRWIN, Ph.D., Assistant Professor of Mathematics.
 *THOMAS BUCK, Ph.D., Assistant Professor of Mathematics.
 PAULINE SPERRY, Ph.D., Instructor in Mathematics.
 FRANK R. MORRIS, Ph.D., Instructor in Mathematics.
 ARTHUR R. WILLIAMS, Ph.D., Instructor in Mathematics.
 C. DONALD SHANE, Ph.D., Instructor in Mathematics.
 ANNIE D. B. ANDREWS, Ph.D., Associate in Mathematics.
 D. VICTOR STEED, A.B., Assistant in Mathematics.
 PAUL H. DAUS, B.S., Assistant in Mathematics.
 NINA M. ALDERTON, M.A., Assistant in Mathematics.
 BING C. WONG, M.A., Assistant in Mathematics.
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- BALDWIN M. WOODS, Ph.D., Professor of Aerodynamics.

PREPARATION FOR THE MAJOR

Required: Mathematics 5 (5 units), 6 (3), 8 (3), 9 (5), A-C (6).

Recommended: Physics; Astronomy; French; Italian; German; Latin.

Honors-Students in the Upper Division.—Students who wish to become honors-students in mathematics must obtain permission from the department. They should elect courses 5, 6, 8, and 9 in the lower division. The specific courses in preparation for the final examination are 109A-109B, 111, 112, 114, and 119. Six further units are required, either in mathematics or in some related department, and approved by the Mathematics Department. But work in course 199, in which honors-students are expected to enroll throughout the senior year, may, with the approval of the department, be substituted for one or more of these courses.

Honors-students are strongly advised to elect course 104A-104B.

All candidates for honors in mathematics will be expected to pass a general examination in that subject in lieu of the examinations of the

* Absent on leave, 1920-21.

special courses of their final half-year. The examination will be partly written and partly oral, and will include the following subjects:

1. Geometry of the plane and of space, both analytic and projective.
2. The differential and integral calculus, including the elements of differential equations.
3. Algebra: theory of algebraic equations.

LOWER DIVISION COURSES

- A. Algebra. (3) I. Three sections: Tu Th S, 9, 10, 11.

Course A is substantially equivalent to the high school course in algebraic theory. Course A will not be offered after the first half-year, 1920-21, except in the Summer Session. Prospective students who expect to elect any mathematics in the university should therefore take the course in algebraic theory in the high school, since it is prerequisite to every other course in mathematics.

- C. Trigonometry. (3) Either half-year.

Three sections: Tu Th S, 9, 10, 11. Prerequisite: the high school course in algebraic theory.

Course C includes the high school course in plane trigonometry.

2. Mathematical Theory of Investment. (5) Either half-year.

M Tu W Th F, 9, 2. Prerequisite: course A (or its equivalent). Prescribed in the College of Commerce.

- 3-4. Elements of Analysis, with Applications.

A practical two-year course in algebra, analytic geometry, the differential and integral calculus, adapted particularly to the needs of students in engineering, architecture, and chemistry.

- 3A-3B. Plane Analytic Geometry and Differential Calculus. (3-3) Yr.

Thirteen sections: M W F, 8, 9, 10; Tu Th S, 8. Prerequisite: courses A and C or the equivalent high school courses.

- 3AB. Plane Analytic Geometry and Differential Calculus. (6) II.

Daily, 10. For freshmen entering in January only.

- 4A-4B. Solid Analytic Geometry and Integral Calculus. (3-3) Yr.

Seven sections, M W F, 8, 10.

5. Analytic Geometry. (5) Either half-year.

IRWIN, HASKELL

M Tu W Th F, 9. Prerequisite: course C.

The straight line, the circle, and the conic sections, including a discussion of the general equation of the second degree. Introduction to the analytic geometry of space.

6. Introduction to Projective Geometry. (3) II. M W F, 3. STEED

Required of all candidates for the teacher's recommendation with mathematics as a major.

8. College Algebra. (3) I. Tu Th S, 10.

SPERRY

Permutations and combinations, probabilities, binomial theorem, logarithms, convergency of series, complex numbers.

9. **Differential and Integral Calculus.** (5) II. M Tu W Th F, 9. IRWIN
Prerequisite: course 5.

The elements of the differential and integral calculus, with application to geometry and mechanics.

UPPER DIVISION COURSES

These courses are open to students in the lower division who have the necessary prerequisites.

Courses 5 and 9 are prerequisite to courses 112, 114. Course 9 is prerequisite to courses 109A-109B, 117, 120.

101. **Elementary Geometry for Advanced Students.** (3) II. NOBLE
M W F, 10. Prerequisite: courses 5 and 6.

Selected topics in elementary geometry, with particular emphasis on recent developments.

102. **Elementary Algebra for Advanced Students.** (3) I. NOBLE
M W F, 10. Prerequisite: courses 8 and 9.

Selected topics in elementary algebra, with particular reference to modern points of view.

- 104A-104B. **History of Mathematics.** (2-2) Yr. Tu Th, 11. CAJORI

A non-technical course, open to students who have some knowledge of the fundamental ideas of analytic geometry and calculus.

106. **History of Physics.** (2) II. M W, 11. CAJORI

Development of the experimental method, evolution of laboratories, critical periods in the history of hypotheses. A course designed for teachers. (Also listed as Physics 106.)

- 109A-109B. **Calculus, Advanced Course.** (3-3) Yr. McDONALD
M W F, 9.

- 110A-110B. **Advanced Calculus.** (2-2) Yr. Tu Th, 8, 9. WOODS, NOBLE

The differential equations, both ordinary and partial, which occur most frequently in the applications, with special stress on approximate numerical solutions. Definite integrals, multiple integrals, theory and use of infinite series, applications to practical problems. Primarily for students of engineering.

111. **Theory of Algebraic Equations.** (3) II. M W F, 2. IRWIN

112. **Solid Analytic Geometry.** (3) I. M W F, 3. NOBLE

114. **Advanced Analytic Geometry.** (3) II. M W F, 3. NOBLE

Introduction to modern methods in analytic geometry.

117. **Calculus of Finite Differences.** (3) I. M W F, 8. BERNSTEIN

118. **Algebra of Logic.** (3) I. M W F, 10. BERNSTEIN

Mathematical development of the logic of Boole, with applications.

119. **Differential Equations.** (3) I. M W F, 2. IRWIN

120. **Theory of Probability.** (3) II. M W F, 8. BERNSTEIN

124. Vector Analysis. (3) II. Tu Th S, 10. HASKELL
- 125A-125B. Analytic Mechanics. (3-3) Yr. M W F, 9. HASKELL
Prerequisite: course 109A, and an elementary course in mechanics.
- 199A-199B. Honors Conference. Yr. M W, 11. HASKELL
Individual conferences with honors-students for their guidance in reading and research. Credit to be arranged.

GRADUATE COURSES

- 203A-203B. History of Fundamental Concepts of the Calculus and Fluxions. (2-2) Yr. Lectures and seminar. W F, 4. CAJORI
- *204. History of Algebra. Seminar. (2). CAJORI
- *205. History of Infinite Series. Seminar. (2). CAJORI
- 211A-211B. Higher Plane Curves. (3-3) Yr. M W F, 3. HASKELL
- *212. Algebraic Surfaces. (3) II. LEHMER
- *213. Synthetic Projective Geometry. (3). LEHMER
214. Geometry of Four Dimensions. (3) I. M W F, 1. LEHMER
216. Differential Geometry. (3) II. M W F, 1. SPERRY
- *217. Projective Differential Geometry. SPERRY
- 218A-218B. Logic of Mathematics. (2-2) Yr. Tu Th S, 8. BERNSTEIN
Analysis of the foundation principles of geometry and algebra. Designed especially for teachers and prospective teachers of mathematics.
- 221A-221B. Introduction to Modern Higher Algebra. (3-3) Yr. IRWIN
Tu Th S, 10.
- *222. Theory of Functions of a Real Variable. IRWIN
- 223A. Partial Differential Equations. (3) I. Tu Th S, 9. PUTNAM
The important partial differential equations of applied mathematics.
- 223B. Special Analytic Functions. (3) II. Tu Th S, 9. PUTNAM
Definite integrals, gamma-function, hypergeometric function, Bessel's functions, elliptic integrals.
- 224A-224B. Functions of a Complex Variable. (3-3) Yr. McDONALD
M W F, 2.
- *225. Elliptic Functions. NOBLE
- *226. Elliptic Modular Functions. HASKELL
- *231. Theory of Numbers. LEHMER

* Not to be given, 1920-21.

- *233. Theory of Groups. Part I. HASKELL
Theory of groups of substitutions, with application to the theory of algebraic equations.
- *234. Theory of Groups. Part II. HASKELL
Elements of continuous groups, with application to the theory of differential equations.
- *235. Seminar in Group Theory. HASKELL
Geometry in the light of group-theory.
- *237. Calculus of Variations. NOBLE
- Mathematical Colloquium. LEHMNER
Meetings for the presentation of original work by members of the staff and graduate students.
251. Special Study and Research. The STAFF
299. Mathematical Seminar. Thesis for the Master's Degree. McDONALD
Advanced students will be guided in reading and research; frequent reports will be required. The particular aim of the seminar will be the training of students in independent investigation.
300. Teaching of Mathematics in Secondary Schools. (3) I. CAJORI
M W F, 3.
History of methods of teaching mathematics and a critical inquiry into present-day tendencies. For seniors and graduate students. This course will be accepted in partial satisfaction of the requirement in education for the teacher's recommendation.

COURSES IN OTHER DEPARTMENTS

- Methods of Least Squares. (See Astronomy 107.) EINARSSON
- Interpolation, Use of Tables and Mechanical Quadratures. (See Astronomy 108.) EINARSSON
- Theoretical Astronomy. (See Astronomy 206.) LEUSCHNER

* Not to be given, 1920-21.

MECHANICAL AND ELECTRICAL ENGINEERING

CLARENCE L. CORY, M.M.E., D.Eng., John W. Mackay Jr. Professor of Electrical Engineering and Dean of the College of Mechanics.

JOSEPH N. LeCONTE, M.M.E., Professor of Engineering Mechanics.

BENEDICT F. RABER, B.S., Professor of Mechanical Engineering.

BALDWIN M. WOODS, Ph.D., Professor of Aerodynamics.

HERBERT B. LANGILLE, A.B., Associate Professor of Machine Design and Mechanical Drawing.

GEORGE L. GREVES, M.S., Assistant Professor of Electrical Engineering.

FLOYD H. CHERRY, B.S., Assistant Professor of Electrical Engineering.

ARTHUR B. DOMONOSKE, M.S., Assistant Professor of Mechanical Engineering.

BLAKE R. VANLEER, B.S., Instructor in Mechanical Engineering.

LLEWELLYN M. K. BOELTER, M.S., Instructor in Electrical Engineering.

GEORGE E. COX, Assistant in Mechanics and Foreman of Woodwork.

JAMES GEORGE, Assistant in Mechanics and Foreman of Ironwork.

— — —, Lecturer on Marine Engineering and Naval Architecture.

Laboratory Deposits.—Mechanical Engineering 8A-8B, 9A-9B, \$10 per half-year; 107, 109, \$2.50 per half-year; 117A-117B, 119A-119B, \$5 per half-year. Electrical Engineering 6A-6B, \$2.50 per half-year; 100C-100D, 110C, \$5 per half-year; 111C-111D, \$10 per half-year. Sixty per cent of the amount of these deposits is retained as a fee and the balance after deductions for breakage or loss of apparatus is returned to the student.

Honors.—Students will be recommended for honors on the basis of the work done in the regular curriculum of the senior year. Particular emphasis will be placed on the thesis.

MECHANICAL ENGINEERING**LOWER DIVISION COURSES**

1. Elements of Heat Power Engineering. (3) I. CHERRY, LANGILLE
Sec. 1, M W F, 8; Sec. 2, M W F, 9. Prerequisite: Physics 1A-1B, Mathematics 3A-3B.

Fundamental consideration of fuels, combustion, steam, boilers, furnaces, chimneys; steam engines, steam turbines and auxiliaries; internal combustion engines.

2. Descriptive Geometry. (3) Either half-year. CHERRY
Sec. 1, Tu Th S, 9-12; Sec. 2, Tu W Th, 1-4. Prerequisites: Drawing C or high school geometrical drawing. Prescribed alternately with Drawing 3D, sophomore year, Colleges of Engineering.

Lectures and drafting-room work upon the fundamental principles of descriptive geometry and their application to engineering problems.

6A. Machine Design. (3) II.

LANGILLE

Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4. Prerequisite: Mechanical Engineering 2 or Drawing 3D.

Elements of machine design. Work at the drawing board, supplemented by lectures upon the principles underlying mechanical drawing and machine construction.

7. Automobile and Truck Construction. (3) Either half-year.

Sec. 1, M W F, 9; Sec. 2, M W F, 1.

DOMONOSKE

Illustrated lectures on typical details of automobile construction including engines, oiling, cooling and ignition; clutches, transmissions and rear axles. Designed to meet the demand for such knowledge as will facilitate intelligent driving and regular maintenance of automotive vehicles. Open to students with sophomore standing. Physics, including electricity and magnetism, while not prerequisite are highly desirable.

10. Automotive Laboratory. (2) Either half-year.

RABER, DOMONOSKE, BOELTER

Sec. 1, Tu, 1-5; Sec. 2, F, 1-5. Prerequisite: Mechanical Engineering 7.

Elementary work in the automotive laboratory.

8A-8B. Shop Work, Pattern Making. (2-2) Yr.

COX

Sec. 1, M F, 1-4; Sec. 2, Tu Th, 9-12; Sec. 3, Tu Th, 1-4; Sec. 4, W, 1-4, and S, 9-12.

Shop work in wood, including pattern making.

9A-9B. Shop Work, Machine Work in Iron. (2-2) Yr.

GEORGE

Sec. 1, M F, 1-4; Sec. 2, Tu Th, 9-12; Sec. 3, Tu Th, 1-4; Sec. 4, W, 1-4, and S, 9-12.

Shop work in iron, including machine work.

18. Summer Class in Shop Work. (3).

COX, GEORGE

Six weeks, four days a week, 9-12, 1-4.

Shop work in wood and pattern making or in iron and machine work. Required for graduation in the College of Mechanics.

UPPER DIVISION COURSES

102A-102B. Engineering Mechanics. (3-3) Yr.

LECONTE, WOODS

Secs. 1 and 2, M W F, 8; Sec. 3, M W F, 10. Prerequisite: Mathematics 3A-3B, 4A-4B, or 9 and 109A-109B.

A course in theoretical mechanics designed to meet the needs of students in engineering.

103A. Hydraulics. (3) I. M W F, 9.

LECONTE

Prerequisite: course 102A-102B or Physics 105A-105B.

The principles of hydraulics with special reference to their application in the development of power.

- 103B. Hydraulic Machinery. (3) II. M W F, 9. LECONTE
Prerequisite: course 103A or Civil Engineering 110.
Discussion of the theory underlying the design of hydraulic motors, pumps, and other apparatus operated through the agency of water.
- 103C-103D. Elementary Practical Hydraulics. (2-2) Yr. VANLEER
Tu Th, 11. Course 102A-102B must precede or accompany this course.
Practical problems upon cost of piping, well digging, selection of pumping machinery and central station pumping plants, windmills, etc. Reports upon visits to hydraulic installations; oral and written abstracts of engineering papers. Recitations.
- 104A-104B. Kinematics. (2-2) Yr. Tu Th, 11. WOODS
Prerequisite: course 102A-102B or Physics 105A-105B.
Theoretical.—Motion without reference to the cause which produces it; pure mechanism or the mutual dependence of the movements in the parts of a machine.
Applied.—Application of the preceding to the various kinematic problems connected with machine design and construction, such as link-motion, transmission by rolling and sliding contact, teeth of wheels, cams, form and proportions of the steam engine and other motors.
- 104C-104D. Kinematics Drafting. (1-1) Yr. W, 1-4. LANGILLE
To be taken only in conjunction with course 104A-104B.
- 105A-105B. Thermodynamics. (3-2) Yr. I. M W F, 10. II, M F, 10. RABER, DOMONOSKE
Prerequisite: junior standing in an engineering college.
105A. Relations between heat and mechanical energy. Thermal properties of perfect gases. Consideration of heat power engines using perfect gases, including the analyses of cycles, the thermodynamic calculations for designs, and the practical operating features of air compressors and air engines, gas, oil, and Diesel engines.
105B. Thermal properties of vapors. Consideration of heat power engines using vapors, including the analyses of cycles, the thermodynamic calculations for designs, and the practical operating features of reciprocating vapor engines and turbines.
- 106B. Machine Design. (2) I. LANGILLE
Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4. Prerequisite: course 6A.
Continuation of course 6A. Design of machine parts and of a typical machine suitable for illustrating the general principles of engineering design.
- 106C. Advanced Machine Design. (2) Either half-year. LANGILLE
Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4.
A continuation of course 106B, involving the complete design of a steam engine, air compressor or similar mechanism. Open as an elective course to students who have completed courses 6A and 106B. Completion of courses 102A-102B, 104A-104B, 104C-104D is particularly desirable as a preparation for this course. Course 104A and 104C may be taken concurrently.

107. Elementary Heat Power Laboratory. (1) Either half-year.

DOMONOSKE, BOELTER

Sec. 1, M, 1-4; Sec. 2, W, 1-4; Sec. 3, F, 1-4.

Prerequisite: junior standing in an engineering college, Mechanical Engineering 105A, or the latter may be taken concurrently.

Calibration of instruments and auxiliary apparatus used in testing. Tests of steam engine, steam pump, gas engine, air compressor, boiler, etc. Steam calorimetry. Fuel testing.

109. Hydraulic Laboratory—Experimental Engineering. (1) Either half-year.

VANLEER

Secs. 1, 2, W, 1-4; Secs. 3, 4, F, 1-4. Prerequisite: junior standing in an engineering college.

The general principles of hydraulics, including methods of measuring water, calibration of instruments, meters, weirs, nozzles and orifices, etc.

114A-114B. Thesis. (2-2) Yr.

The STAFF

For the regulations governing thesis work see the Circular of Information, Academic Departments. Candidates for B.S. who elect their thesis work in the Department of Mechanical and Electrical Engineering will register, during both half-years of the last or senior year, for course 114. Candidates who elect their thesis work in another department will register according to the announcement of that department.

115. Thermodynamics. (3) I. M W F, 8.

RABER, DOMONOSKE

Prerequisite: course 105A-105B.

Vapor cycles used for refrigeration. Calculations for designs and the practical operating features of refrigerating systems. Steam power plant layouts. Building up of load curves and the correlation of main and auxiliary units.

117A-117B. Advanced Heat Power Laboratory. (1-1) Yr.

RABER, DOMONOSKE, BOELTER

Sec. 1, M, 1-4; Sec. 2, Tu, 1-4; Sec. 3, Th, 1-4. Prerequisite: course 105A-105B.

Testing of prime movers as semi-Diesel internal combustion engines, steam engines and steam turbines. Boiler and plant tests. Analysis of heat losses from experimental results.

119A-119B. Hydraulic Laboratory—Experimental Engineering. (1-1) Yr.

VANLEER

Secs. 1, 2, M, 1-4; Secs. 3, 4, Tu, 1-4; Secs. 5, 6, Th, 1-4. Must be taken in conjunction with course 103A-103B. Prerequisite: course 109.

The general principles of hydraulic machinery, including tests of pumps, centrifugal, direct displacement, etc., tests of impulse and reaction turbines. Determination of windage and friction, impact and bucket losses, etc.

121. Aerodynamics. (3) II.

WOODS

The elements of the theory of motion in a fluid as they affect the design of the aeroplane; the fundamental parts of the machine, the use of model experiments, and the trend of aeroplane development

126. Steam Turbines. (2) Either half-year. LANGILLE
 Prerequisite: Mechanical Engineering 1; course 105B may be taken concurrently.

Rotative heat power engines and their auxiliaries; design of steam nozzles, of blading, and of governor details. Turbine operation illustrated by inspection trips to typical plants. Open to seniors and graduate students.

GRADUATE COURSES

- 215A-215B. Advanced Problems in Hydraulics and Engineering Mechanics. LECONTE
 (1-1) Yr. W, 11.

Conditions of minimum loss in turbines, distribution of flow in channels, theory of vortex diffusers, problem of the surge pipe, theory of air lift and jet pump. Ballistics, interior and exterior, counterbalancing of reciprocating motors.

219. Mechanical Engineering: Research Laboratory. I. RABER
 Prerequisite: courses 1, 105A-105B, or the latter may be taken concurrently.

221. Aerodynamics. (2) I. WOODS
 Prerequisite: course 102, Mathematics 110.

The principles of motion in a fluid as applied to the aeroplane, and to the design of its fundamental parts.

ELECTRICAL ENGINEERING

LOWER DIVISION COURSES

1. Elements of Electrical Engineering. (3) II. CHERRY
 Sec. 1, M W F, 8; Sec. 2, M W F, 9. Open to sophomores in the engineering colleges, especially those who have had Mathematics 3A-3B and Physics 4A.

- 6A-6B. Elements of Radio Engineering. (4-4) Yr. GREVES, —
 Lectures, M W F, 8; laboratory period to be arranged. Prerequisite: enrollment in Mathematics 3A and Physics 1A.

Lectures and recitations on the theory and operation of the electrical machines used in radio communication. Elements of the theory and practice involved in radio telegraphy and telephony.

UPPER DIVISION COURSES

- 100A. Direct Current Machinery. (2) I. Tu Th, 9. GREVES
 Prerequisites: Mathematics 4A-4B; Physics 4A-4B.

Theory, operating characteristics, and uses of direct current machinery and equipment. For engineering students not registered in the College of Mechanics.

- 100B. Alternating Current Machinery. (2) II. Tu Th, 9. GREVES
 Prerequisite: course 100A.

A continuation of course 100A. Theory, operating characteristics and uses of alternating current machinery and equipment. For engineering students not registered in the College of Mechanics.

100c. Electrical Laboratory: Direct Current Machinery. (1) I. GREVES
Sec. 1, M, 1-4; Sec. 2, W, 1-4; Sec. 3, F, 1-4; Sec. 4, S, 8-11. Course
100A must be taken concurrently.

100b. Electrical Laboratory: Alternating Current Machinery. (1) II.
GREVES
Sec. 1, M, 1-4; Sec. 2, W, 1-4; Sec. 3, F, 1-4; Sec. 4, S, 8-11. Course
100B must be taken concurrently.

110A-110B. Electrical Machinery and Construction. (2-2) Yr. CORY
Tu Th, 11. Prerequisite: course 1B, Mathematics 4A-4B and Physics
4A-4B.

The construction and operation of electrical machinery, and its
application to electric lighting and power distribution.

110c. Electrical Machinery and Construction: Laboratory. (2) II.
GREVES
Sec. 1, M, 1-4; Sec. 2, Tu, 1-4; Sec. 3, W, 1-4; Sec. 4, Th, 1-4; Sec.
5, F, 1-4; Sec. 6, S, 8-11. Course 110B must be taken concurrently.

111A-111B. Alternating Currents and Alternating Current Machinery.
(4-4) Yr. Tu Th, 9-11. CORY
Prerequisite: courses 110A-110B and 110C; Mechanics 102A-102B or
Physics 105A-105B; Physics 107A-107B.

The theory of the generation of single-phase and poly-phase alter-
nating currents, the use of the complex quantity, and the calculation
of the regulation and behavior of alternating current apparatus and
transmission lines. The theory of the single-phase and poly-phase
induction motor, synchronous motor, and rotary converter, and their
effects and operation in transmission systems.

111c-111d. Alternating Currents and Alternating Current Machinery:
Laboratory. (3-2) Yr. GREVES
Sec. 1, Tu, 1-6; Sec. 2, Th, 1-6. Prerequisite: courses 111A-111B
must be taken concurrently.

114A-114B. Thesis. (2-2) Yr. The STAFF

For the regulations governing thesis work see the Circular of
Information, Academic Departments. Candidates for B.S. who elect
their thesis work in the department of Mechanical and Electrical
Engineering will register, during both half-years of the last or senior
year, for course 114. Candidates who elect their thesis work in
another department will register according to the announcement of
that department.

115A-115B. Advanced Radio Engineering. Yr.
Prerequisites: Mathematics 4A-4B; Physics 4A-4B. Electrical Engi-
neering 100ABCD or Electrical Engineering 110ABC and Mathematics
110AB should be taken concurrently.

The theory of radio circuits, apparatus and auxiliary equipment
and their applications to radio telegraphy and telephony.

115c-115d. Advanced Radio Engineering: Laboratory. (2-2) Yr.

119A-119B. Elements of Electrical Design. Yr.

Theoretical principles underlying the construction and operation of electrical apparatus; applications of the principles to the practical design and general problems connected with direct and alternating current machinery and apparatus.

122A-122B. Special Undergraduate Study. Yr.

The STAFF

Lectures, or selected topics for reading.

122C-122D. Special Undergraduate Study. Yr.

The STAFF

Laboratory.

GRADUATE COURSES

212A-212B. Advanced Theoretical Electrical Engineering. (2-2) Yr.

Lectures on selected topics of an advanced technical nature dealing with electrical apparatus, the theory and use of the oscillograph, measurement and calculation of transmission line constants, and steady and transient phenomena in circuits having concentrated and distributed constants. Open to seniors and graduate students.

212C-212D. Electrical Engineering Research Laboratory. Yr.

The STAFF

218A-218B. Special Graduate Study in Electrical Engineering. Yr.

The STAFF

Selected topics for reading and discussion.

MARINE ENGINEERING AND NAVAL ARCHITECTURE

NOTE.—Lectures will be supplemented by visits to plants in actual operation.

101A-101B. Naval Architecture. (2-2) Yr. Tu Th, 8.

Prerequisite: junior standing in an engineering college or in architecture.

Areas, volumes, and centers of gravity of solids; displacement, center of buoyancy, metacenter, trim; coefficients (block, prism mid-area); sectional area curves, displacement tables, cargo capacities, flooding, tonnage, free board, launching, strains and stresses; equivalent girder, resistance to stress, stability.

102A-102B. Naval Architecture Drafting. (2-2) Yr.

Tu Th, 1-4.

Drafting and designing. To be taken in conjunction with course 101A-101B.

103A-103B. Marine Engineering. (2-2) Yr. Tu Th, 10.

Fire-tube and water-tube boilers; oil and coal firing. Reciprocating and turbine engines; valve diagrams; Diesel, semi-Diesel, and ordinary gas engines; shafting, propellers; horsepower, resistance and propulsion of ships.

104A-104B. Marine Engineering Drafting. (2-2) Yr. —

Tu Th, 1-4.

Drafting and designing. To be taken in conjunction with course 103A-103B.

105A-105B. Nomenclature in Shipbuilding. (1-1) Yr. W, 11. —

Names of the parts of a ship, calculations of rudders and davits; Classification Society's rules; civil service and other United States requirements.

106A. Construction and Operation of Ships. (2) Either half-year. —

M W, 10.

Types of ships; displacement; tons per inch immersion; dead weight; load line; gross, net and under deck tonnage; stability in loading; homogeneous and liquid cargoes; shifting cargoes; Seamen's Act and correlated laws affecting the arrangement of ships; classification and insurance under Lloyds; types of machinery; speed and consumption; drydocking; operation; maintenance; chartering; customs clearance and entry. This course is arranged especially to suit the needs of the students in the College of Commerce.

MEDICAL SCHOOL

At present the instruction of the first one and one-half years of the medical course is given in Berkeley. The first year of this work may also be counted towards the bachelor's degree in the College of Letters and Science for those who have attained senior standing. See departments of anatomy, biochemistry and pharmacology, physiology, and pathology and bacteriology. For further information reference should be made to the special announcement of the Medical School.

MILITARY SCIENCE AND TACTICS

JOHN T. NANCE, Colonel, U. S. Army, Retired, Graduate U. S. Military Academy, Professor of Military Science and Tactics.

LEWIS K. UNDERHILL, Captain, Infantry, U. S. Army, A.B., Graduate U. S. Military Academy, Assistant Professor of Military Science and Tactics.

FREDERICK MCCABE, Captain, Infantry, U. S. Army, Assistant Professor of Military Science and Tactics.

NORMAN E. FISKE, Captain, Cavalry, U. S. Army, B.S., Assistant Professor of Military Science and Tactics.

— — —, Assistant in Military Science and Tactics.

The courses in military training are those prescribed by the War Department for infantry units of the senior division of the Reserve Officers' Training Corps. The United States furnishes arms, equipment, uniforms, and some text books for the use of students belonging to such units. The University being responsible for text books and uniforms furnished by the United States requires the student to deposit with the Comptroller \$33 to cover the cost of the text books and uniform issued him. This deposit must be made before the student files his study-list; the deposit is refunded at the close of the academic year or upon the student's withdrawal, provided the student then returns in good condition all articles issued him. An amount necessary to replace articles not returned by the student will be retained by the Comptroller.

Students who are members of the National Guard or of the U. S. Naval Reserve Force are authorized to wear their Guard or Navy uniform in their military training at the University, and, upon application to the Supply Officer at the Military Science Building, may be excused from paying the deposit for uniform. Such students will pay a deposit of \$3 to cover cost of text books issued them.

The primary object of establishing units of the Reserve Officers' Training Corps is to qualify students for appointment in the Officers' Reserve Corps of the United States Army. Students who complete the advanced (upper division) course, and who participate in such summer camps as the Secretary of War may prescribe, are eligible upon graduation for appointment and commission by the President in the Officers' Reserve Corps, which is intended to furnish a great part of the commissioned personnel for the temporary forces which this nation will require in time of emergency.

Students who complete the advanced course are also eligible to commission by the Governor of the State of California in the University Cadets.

The courses are divided into two groups, the lower division or basic courses and the upper division or advanced courses.

PREPARATION FOR THE MAJOR

Required: Military 1A-1B (3), 2A-2B (3); Hygiene 1 (1); Physical Education, prescribed courses.

Recommended: Jurisprudence 10A-10B (4) or 18A-18B (5); History 4A-4B (6), 8A-8B (6); Political Science 1A-1B (6); French or German or Spanish.

LOWER DIVISION COURSES

The lower division or basic courses are prescribed for all first-year and second-year undergraduate male students who are citizens of the United States, able-bodied and under twenty-four years of age at the time of admission to the University. A first-year or second-year student claiming exemption because of non-citizenship, physical disability or age will present to the Department of Military Science and Tactics a petition, on the prescribed form, for such exemption. Pending action on his petition the student will enroll in the courses prescribed for his year and enter upon the work of such courses.

1A-1B. Basic Military Training (first year). (1½-1½) Yr.

NANCE, UNDERHILL, McCABE, FISKE, Assistants and Cadet Officers

M W, 11, alt. W, 4, and 2 half-day periods. Beginning either half-year.

Instruction and practice in organization, infantry drill, field exercise exercises, ceremonies, military courtesy and discipline, care of rifle, rifle firing, bayonet combat, interior guard, first aid and minor tactics.

2A-2B. Basic Military Training (second year). (1½-1½) Yr.

NANCE, UNDERHILL, McCABE, and FISKE, Assistants and Cadet Officers

M W, 11, alt. W, 4, and 2 half-day periods. Beginning either half-year.

Continuation of course 1A-1B, and instruction and practice in signaling, topography and field engineering.

UPPER DIVISION COURSES

The upper division or advanced courses are prescribed for such third-year and fourth-year students as have completed the basic courses and elect to continue their military training and who are appointed officers of University Cadets.

Any member of the senior division of the Reserve Officers' Training Corps who has completed two academic years of service in that division, who has been selected for further military training by the president of the institution and the professor of military science and tactics, and who executes the following written agreement, will be entitled, while not subsisted in kind, to the commutation of subsistence fixed by the Secretary of War in accordance with law.

....., 192.....
In consideration of commutation of subsistence to be furnished me in accordance with law, I hereby agree to continue in the Reserve Officers' Training Corps during the remainder of my course in
(Institution)

to devote five hours per week during such period to the military training prescribed, and to pursue the courses of camp training during such period, prescribed by the Secretary of War.

The course of camp training is for six weeks during the summer vacation normally following the student's completion of the first year of the advanced course. The United States furnishes uniform, transportation and subsistence for students attending the training camp.

Cadet officers and, so far as practicable, sergeants of the unit will be appointed from members of the junior and senior classes.

Students desiring to enroll in upper division courses who are unable to conform to the following schedule are advised to consult the head of the department.

103A-103B. Advanced Military Training (third year). (3-3) Yr.

NANCE, UNDERHILL, MCCABE, and FISKE

M W, 11; W, 4; Th, 3; 2 half-day periods and 4 two-hour periods.

Practice in the duties of cadet officers and in teaching, in connection with courses 1A-1B and 2A-2B; topography, field engineering, minor tactics, administration, hippology, laws of war.

Continuation of course 103A-103B, and exercises in military law,

104A-104B. Advanced Military Training (fourth year). (3-3) Yr.

NANCE, UNDERHILL, MCCABE, and FISKE

M W, 11; W, 4; Th, 3; 2 half-day periods and 4 two-hour periods.

Continuation of course 103A-103B, and exercises in military law, military history and military policy.

MINING AND METALLURGY

FRANK H. PROBERT, A.R.S.M., Professor of Mining, Dean of the College of Mining.

ERNEST A. HERSAM, B.S., Associate Professor of Metallurgy.

WALTER S. WEEKS, M.E., Associate Professor of Mining.

LESTER C. UREN, B.S., Associate Professor of Petroleum Engineering.

WALTER S. MORLEY, B.S., Associate Professor of Metallurgy.

— — —, Instructor in Mining.

Honors.—Students will be recommended for honors at graduation on the basis of the quality of work done in the regular curriculum of the senior year. Particular emphasis will be placed upon the student's capacity for original work.

Vacation Work.—All students are required to work eight weeks, prior to senior standing, in a mine, mill, smelter, or oil field, of which two weeks shall be spent in collecting data for a report to be submitted to the Department of Mining and Metallurgy. Two units of credit will be given for this report.

For the regulations governing thesis work see Circular of Information, Academic Departments. Candidates for B.S. in mining, metallurgical or petroleum engineering may, with the approval of the study-lists committee, submit a thesis based on field studies.

MINING

There are no laboratory fees in this department.

LOWER DIVISION COURSES

- | | |
|--|-------|
| 1A. Mine Surveying. (2) I. | WEEKS |
| Tu Th, 9-12. Prerequisite: Civil Engineering 1A-1B, 3. To be taken concurrently with course 1B. | |
| Surface and underground mine surveys; methods of traversing and collecting details. | |
| 1B. Mine Mapping. (1) I. W, 1-4. | — |
| Preparation of mine maps from survey data, and methods of representing geological and other features on mine maps. Drafting-room practice. | |
| 1C. Mine Mapping. (1) II. W, 1-4. | — |
| Prerequisite: course 1B. | |
| Continuation of course 1B. Preparation of graphic records of engineering data; stoping charts, sampling diagrams, geologic maps and sections, and bore-hole logs. Use of special instruments. An intimate study of the several types of mine models. | |

5. Engineering Drawing. (2) II.

M W, M F, or W F, 1-4. Prerequisite: high school geometrical drawing.

Drafting-room practice, supplemented by occasional lectures, designed to meet the needs of mining students. Lettering; orthographic projection; preparation of working drawings and metallurgical flow sheets; graphical methods of representing engineering data; copying processes.

UPPER DIVISION COURSES

101. Mine Development and Mining Methods. (3) II.

PROBERT

M W F, 9. Prerequisite: course 103; Mechanics 102A-102B or Physics 105A-105B.

Preliminary development, prospect and assessment work; choice of permanent entry; shaft sinking, tunneling, underground exploration. Support of excavations. Factors determining methods of mining. Modern practice in exploitation of veins, beds and massive deposits.

103. General Mining. (2) I. Tu Th, 11.

PROBERT

Prerequisite: Geology 1A, Mineralogy 1A, 1B.

History of mining; importance of industry in modern civilization; prospecting; classification of mining methods, surface mining including placer and open pit work; mining non-metallic minerals, and an introduction to metal mining practices.

105. Mine Equipment. (3) II. M W F, 8.

WEEKS

Prerequisite: course 101, Mechanics 1, 102A-102B, Electrical Engineering 100AB-100CD, Civil Engineering 108A. Course 111B to be taken concurrently.

General discussion of power and mine equipment; transportation; hoisting, pumping, ventilating, and lighting.

107. Economics of Mining. (3) I. M W F, 10.

PROBERT

Prerequisite: senior standing.

Mining—a business. Land, labor and capital in mining. The economic operation of a mine. The public domain and acquisition of mineral lands. Company incorporation and organization; stocks, bonds and market tendencies; mine taxation; marketing ores and metals. Labor, employment, management, labor organizations. Conservation of natural resources. Production and consumption. Political and commercial control. Relation of mining to other industries.

109. Mine Cost-Accounting. (2) II. Tu Th, 8.

UREN

Lectures on mine accounting and cost-keeping from an engineering standpoint. Payment of workmen; purchase and distribution of mine supplies; production records; administrative reports; methods of filing and preparing engineering and statistical data. To be taken concurrently with course 101.

111A. Mining Machinery: Compressed Air. (4) I.

WEEKS

M Tu W, 1-4. Prerequisite: Mechanics 1, Electrical Engineering 100AB-100CD.

Lectures, computations and laboratory. The compression of air and use of compressed air for mining purposes.

- 111B. Mining Machinery and Supplies. (3) II. M W, 1-4. WEEKS
Prerequisite: course 111A; course 105 to be taken concurrently.
Lectures, computations and laboratory. Power, mine ventilation, pumping, lighting, signaling, explosives, etc.

- 117A-117B. Undergraduate Thesis Course. (2-2) Yr. —

In special cases a student may, with the approval of the study-lists committee, submit as a thesis a piece of work in any department in which he is qualified to pursue advanced studies.

Mining law is given in the Department of Jurisprudence (see Jurisprudence 216).

GRADUATE COURSES

201. Research in Mining Practice. I. WEEKS
Prerequisite: courses 101, 105, and 111A, 111B.
205. Mine Valuation. (2) II. Tu Th, 9. PROBERT
Prerequisite: courses 101, 105 and 107. Open also to qualified seniors who are taking courses 101 and 105.
Lectures on the examination, sampling and valuation of mines.
299. Thesis for the Master's Degree.

PETROLEUM ENGINEERING

UPPER DIVISION COURSES

Course 115 is prerequisite to courses 119, 123, 129.

115. Oil Field Development. (2) I. Tu Th, 11. UREN
Prerequisite: senior standing in any engineering college; open to seniors in Letters and Science whose major is geology.
Prospecting for oil. Methods of drilling and controlling oil wells.
119. Petroleum Production Methods. (2) II. Tu Th, 11. UREN
Prerequisite: course 115.
Methods of extracting oil from wells. Separation of water, sand and gas from oil. Transporting and storing petroleum. Economics of the oil industry. Valuation of oil lands.
123. Petroleum Engineering Laboratory. (2) II. Tu Th, 1-4. UREN
Investigation of special problems in the production, transportation and storage of petroleum. Practice in testing petroleum. Course 119 to be taken concurrently.
125. Petroleum Cost Accounting. (1) I. Tu, 8. UREN
Oil field cost-keeping and accounting methods. Payment of workmen; purchase and distribution of supplies; production records and administrative reports. To be taken only in conjunction with course 115.

127. Petroleum Utilization. (1) I. F, 10.

UREN

Prerequisite: junior standing in an engineering college; open also to seniors in Letters and Science whose major is geology.

Use of petroleum and its derivatives as fuels; mineral oil lubricants, their characteristics and uses; refined distillates and their uses in furnishing light and heat; asphalt and its uses in paving and structural work; the mineral waxes and their uses. Lectures.

129. Production and Utilization of Natural Gas. (1) II. F, 9. UREN

Control and management of gas wells; separation of gas from oil; compression and transmission of natural gas; its utilization in developing light, heat, and power; extraction of gasoline from natural gas.

131A-131B. Undergraduate Thesis Course. (2-2) Yr.

UREN

In special cases a student may, with the approval of his study-lists committee, submit as a thesis a piece of work in any department in which he is qualified to pursue advanced studies.

GRADUATE COURSE

207A-207B. Research in Petroleum Technology. Either half-year.

UREN

Prerequisite: courses 115, 119 and 123. Hours and credit to be arranged.

METALLURGY

Laboratory deposits of \$15 per half-year are required in Metallurgy 2, 104A, 104B, 110A, 110B, and 116. After deducting for cost of materials actually used and the breakage of apparatus the balance is refunded.

LOWER DIVISION COURSES

2. Wet Assaying. (3) II. M, 10; Tu Th, 1-4.

MORLEY

Prerequisite: Chemistry 1A-1B.

The principles and practice of wet assaying and volumetric analysis applied to the products of mine, mill, and smelter.

UPPER DIVISION COURSES

102. General Metallurgy. (2) II. Tu Th, 8.

HERSAM

Prerequisite: course 2 or Chemistry 5 or 6A, Physics 1A-1B, 4A-4B, Mineralogy 1A.

The study of ores from a metallurgical standpoint. Sorting, concentrating, handling, sampling, and valuing ores and ore products; slags, fluxes and refractory materials. Metallurgical practices and the outline of standard process of treatment.

104A. Fire Assaying. (3) I. F, 10; M Tu, 1-4.

MORLEY

Prerequisite: course 2, and Mineralogy 1A, 1B.

The proper use and care of the balance. Cupellation and parting of gold and silver. Preparation of ore samples. Scorification and crucible assays of gold and silver ores.

- 104B. **Advanced Assaying.** (2) II. M F, 1-4. MORLEY
Prerequisite: course 104A.
Lectures and laboratory practice in the assay of precious and base metal ores. Melting, refining and sampling of gold and silver bullion. The assay of alluvials for gold, silver, platinum and tin. Smelting practice and analysis of products.
106. **Metallurgy of Iron and Steel.** (2) II. Tu Th, 10. HERSAM
The ores of iron and the methods of their reduction. The production of pig iron, wrought iron, and the various grades of steel. The physical properties of structural iron and steel as related to chemical composition and metallurgical treatment.
- 108A. **Ore Dressing—Lectures.** (2) I. M W, 10. HERSAM
Prerequisite: courses 102 and 104A.
The mechanical treatment of ores; the leading practices relating to crushing, sizing, classification, amalgamation, flotation and the various processes of concentration; theory of mechanical separation; principles underlying the possibilities of ore separation.
- 108B. **Metallurgy of Gold and Silver.** (2) II. M W, 8. HERSAM
Prerequisite: course 108A.
Lectures on the milling and amalgamation of gold and silver ores. The cyanide and other processes of extracting precious metals. Roasting and chlorination. A detailed study of existing plants.
- 110A. **Ore Dressing—Laboratory.** (2) I. Th F, 1-4. HERSAM
Prerequisite: course 102. Supplementary to course 108A.
The operations of ore dressing. Practice in crushing, sampling, and concentrating the ores of gold, silver, and the base metals. Experimentation on a working scale.
- 110B. **Metallurgical Laboratory.** (2) II. Th F, 1-4. HERSAM
Prerequisite: course 110A. Supplementary to course 108B.
Experiments in amalgamation, flotation and hydro-metallurgy of precious and base-metal ores.
112. **Metallurgy of Lead and Copper.** (2) I. Tu Th, 11. MORLEY
Prerequisite: course 102.
Methods of smelting lead and copper ores with particular reference to the gold and silver content. A study of furnaces and the principles of their construction.
116. **Metallography.** (2) Either half-year. MORLEY
I, Tu, 9, W, 1-4; II, Tu, 11, W, 1-4. Prerequisite: course 106.
The microscopic structure of metals and alloys as related to their physical and chemical properties, with special attention to iron and steel. Practice in the use of the microscope as applied to the examination of polished and etched metallic surfaces. Instruction in photomicrography. Lectures and laboratory.
- 118A-118B. **Undergraduate Thesis Course.** (2-2) Yr. —
In special cases a student may, with the approval of the study-lists committee, submit as a thesis a piece of work in any department in which he is qualified to pursue advanced studies.

GRADUATE COUESES

The foregoing undergraduate courses are open to graduate students whose previous preparation has fitted them to undertake the work.

202. Metallurgy of the Less Common Metals. (2) I. M W, 11. HERSAM
Prerequisite: course 112.

The metallurgical treatment of the ores of tin, zinc, antimony, arsenic, mercury, aluminum, and the platinum metals, including methods of reduction and refining these metals.

- 210A-210B. Special Investigation in Treatment of Ores. Yr. HERSAM
M Tu, 1-4. Prerequisite: course 110B.

Programme of work to be arranged in each case.

216. Advanced Metallography. (2) II. Th, 1-5. MORLEY
Prerequisite: course 116.

An extended study of the structure of iron and steel, including thermal analysis. The metallographic examination of the industrial alloys.

MUSIO

EDWARD G. STRICKLEN, Assistant Professor of Music.

VIRGINIA GRAHAM, Instructor in Music.

PAUL STEINDORFF, Choragus.

LEROY W. ALLEN, B.S., Assistant in Music.

PREPARATION FOR THE MAJOR

Required: Music 4A-4B (6 units), 5A-5B (6), 7A-7B (4), 6A-6B (4).

Recommended: one year each of choral singing, musical history, ear-training; two years' study of a musical instrument.

Students who plan to specialize in music should confer with the head of the department at the beginning of the freshman year, in order to ensure the fulfillment of the departmental prerequisites in the lower division (courses 4A-4B, 7A-7B, 6A-6B and 5A-5B or their equivalent—knowledge of the theory and skill in the practice of elementary diatonic and chromatic harmony and strict counterpoint in five parts). The upper division courses are: in composition, 104A-104B and 105A-105B; in performance, 109A-109B (in special cases, one-half of course 101 or 102A-102B may be taken in place of course 109B); in musicology, 111A-111B and 112A-112B (these courses are given in alternate years).

Honors-Students in the Upper Division.—Students in the honors-group who have completed the major in music with distinction may receive honors at graduation by showing ability to do original work either in composition or in a thesis upon a musicological subject. Honors-students will be allowed special privileges in the use of the library and the music building.

Five-Hour Courses.—The schedule contemplates the combination of certain two- and three-hour courses of complementary character in a five-hour series, with the following plans of enrollment: 4A-4B, 7A-7B; 5A-5B, 6A-6B; 102A-109A.

Composition

Notice to All Students.—Ear-training, by practice in sight singing and in dictation, will be given as part of the regular work in courses 4A, 4B. Students in all courses (course 3A alone excepted) may, without preliminary notice, be examined by the department in regard to their abilities in this respect and required to make good any deficiencies.

LOWER DIVISION COURSES

1A-1B. Choral Practice. (1-1) Yr. Tu Th, 1.

STEINDORFF

Any student in the University with a good singing voice may attend the meetings and take part in the final concert or operatic performance.

2A-2B. Orchestral Practice. (1-1) Yr. W, 7 p.m.

STEINDORFF

3A-3B. General History of Music. (3-3) Yr. M W F, 10.

Lectures, reading and illustrative programmes of vocal, instrumental, and ensemble music.

4A-4B. Diatonic Harmony. (3-3) Yr. M W F, 9.

GRAHAM

Prerequisite: familiarity with the symbols and terminology of musical notation together with a knowledge of intervals and simple metrical types (matriculation subject 10a).

Treatment of the complete diatonic resources of the major and minor modes, including the simpler modulations.

5A-5B. Chromatic Harmony. (3-3) Yr. M W F, 10.

STRICKLEN

Prerequisite: course 4A-4B.

6A-6B. Musicianship. (2-2) Yr. Tu Th, 2.

STEINDORFF

Primarily for students who have studied or are studying the technique of an instrument or of the singing voice.

7A-7B. Strict Counterpoint. (2-2) Yr. Tu Th, 9.

STRICKLEN

Prerequisite: same as for Music 4A-4B.

A one-year course in the fundamentals of contrapuntal writing, based on the classical traditions of musical procedure. Must be taken by all students who intend to make music their major subject. It should be taken concurrently with course 4A-4B, but may, with the consent of the department, be taken concurrently with 5A-5B. Students with an adequate knowledge of strict counterpoint who desire to specialize in music may be excused from taking this course upon passing a satisfactory examination in its material.

9. Ear Training. (2) Either half-year. M W, 1.

GRAHAM

Drill work in sight-singing, rhythm, and dictation. Elements of musical notation. Primarily for students who wish to remove deficiencies regarding the simpler aspects of musical perception.

11A-11B. Elementary Band Practice. (1-1) Yr.

ALLEN

Th, 7:30-9:30 p.m.

A preparatory course for 12A-12B. Open to students who have a fair knowledge of musical notation, as well as some experience in playing a band instrument. The study of elementary band selections by means of ensemble and group practice.

12A-12B. Advanced Band Practice. (1-1) Yr. M, 4-6.

ALLEN

Prerequisite: course 11A-11B or its equivalent, ability to read and play band music of superior grade.

Advanced studies in band playing by means of ensemble and group practice.

Performance

NOTE.—Instruction in singing and in the technique of all instruments is offered in the Division of University Extension both in San Francisco and in Oakland. (See "Announcement of Courses in Music," Division of University Extension.)

UPPER DIVISION COURSES

- *101. Concert Repertoire. (1) Either half-year.
Prerequisite: course 11A-11B or exceptional vocal technique.
- 102A-102B. Piano Ensemble Practice. (2-2) Yr. F, 2-4. STEINDORFF
Eight-hand symphonic arrangements. Open only to students who possess exceptional technique and who practice one hour or more every day.
- 104A-104B. Contrapuntal Studies. (3-3) Yr. Tu Th S, 10. STRICKLEN
Prerequisite: courses 5A-5B, 7A-7B.
Double and triple counterpoint; elementary canon and fugue.
- 105A-105B. Composition. (2-2) Yr. Tu Th, 1. STRICKLEN
Prerequisite: course 104A-104B.
- 109A-109B. Conducting. (2-2) Yr. Tu Th, 3. STEINDORFF
Prerequisite: course 5A-5B. Course 6A may, unless previously taken, be required as supplementary study without credit in this course.
- 111A-111B. History of Music. (3-3) Yr. M W F, 1. STRICKLEN
Prerequisite: course 5A-5B. Students must have completed course 104A-104B or else be taking it concurrently with this course.
Pro-seminar. Introduction to the Critique of Music.
- *112A-112B. Form. Pro-seminar. Introduction to the science of music.
- 113A-113B. Advanced Musical Analysis. (2-2) Yr. STRICKLEN
M W, 11. Prerequisites: courses 5A-5B and 7A-7B.
Class work in the analysis of the characteristic harmonic, contrapuntal and formal devices of the best masters of the classic, romantic and modern periods.
- 114A-114B. Band Instrumentation. (2-2) Yr. Tu Th, 4. ALLEN
Prerequisite: courses 4A-4B, 5A-5B, 7A-7B.
Practical experience derived from courses 11A-11B and 12A-12B or their equivalent will be of assistance, but is not essential. The theory and practice of writing and arranging music for the military band.
This course is especially recommended to students who intend to do professional work in connection with the organization and direction of public school bands.

Musicology

NOTE.—While not required, certain courses in anthropology, philosophy, historical and scientific methods, logic, psychology, social psychology, physics and literary criticism are practically essential to specialization in musicology.

* Not to be given, 1920-21.

300A-300B. Teaching of Music. (3-3) Yr. M W F, 1.

STRICKLEN, GRAHAM

Technical skill as well as mature knowledge of the subject is required of the prospective teacher; the student will therefore be given separate final examinations inquiring into the systematization of musical knowledge and the ability to impart it under the exacting conditions of the modern school, as follows: (1) sight reading and dictation, (2) composition, (3) history of music, (4) pianoforte technique, (5) singing, (6) conducting.

GRADUATE COURSE

201A-201B. Elements of Orchestration. (2-2) Yr. Tu Th, 2. STRICKLEN

Prerequisite: courses 104A-104B, 105A-105B, and approval of instructor.

ORIENTAL LANGUAGES

EDWARD T. WILLIAMS, M.A., LL.D., Agassiz Professor of Oriental Languages and Literature.

JOHN FRYER, LL.D., Professor of Oriental Languages, Emeritus.

YOSHI S. KUNO, M.S., Assistant Professor of Japanese.

***S. C. KIANG**, Instructor in Chinese.

TSING HUA CHEN, Assistant in Chinese.

PREPARATION FOR THE MAJOR

Required: Chinese 3A-3B (6), 3C-3D (6), 8A-8B (4), 10A-10B (2); or Japanese 9A-9B (6), 9C-9D (6), 2A-2B (4), 12A-12B (2).

Some of the courses are accepted by the College of Commerce and other colleges as part of their regular curricula or as equivalents for prescribed work. Students who wish to take up Oriental studies may therefore find it to their advantage to consult with the dean of their college as to the arrangements that can be made in that direction.

In addition to the lecture and language courses mentioned below, the head of the department will offer special assistance to students who wish to take up other branches of study connected with China and Japan. He will also act as advisor to students coming from or going to the Orient.

LOWER DIVISION COURSES

Language Courses

***1A-1B.** Lectures on Chinese Culture. (2-2) Yr. W F, 1.

Historical sketch of Chinese thought, its influence on the individual life and on society, and its place in the world civilization. (A) Chinese philosophy and religions; Confucianism, Taoism and other schools of teaching, also the imported systems of Buddhism, Taoism and Christianity. (B) Chinese literature and art.

2B-2B. Japanese Conversation for Beginners. (2-2) Yr. KUNO
M W F, 8. Prerequisite: course 9A. May be taken in connection with course 9B, 9CD.

3A-3B. Elementary Kuan-hua. (3-3) Yr. M W F, 9. WILLIAMS
Introduction to Kuan-hua, the language spoken, with slight variations, by the officials and about four-fifths of the population of China. Series of progressive, elementary lessons and exercises in reading, speaking and translation.

3C-3D. Second-year Kuan-hua. (3-3) Yr. M W F, 3. WILLIAMS

8A-8B. Elementary Chinese Conversation. (2-2) Yr. M W F, 10. CHEN
Practical exercises in the use of Kuan-hua.

† Absent on leave, 1920-21.

* Not to be given, 1920-21.

9A-9B. First-year Elementary Japanese. (3-3) Yr. M W F, 9. KUNO
Introduction to the Japanese language, with the use of both the Katakana and Hiragana forms of letters. Series of progressive elementary lessons and exercises in reading, writing and speaking.

9C-9D. Second-year Elementary Japanese. (3-3) Yr. KUNO
M W F, 10.
Continuation of 9A-9B, introducing the use of common Chinese characters with selections from Japanese newspapers and modern Japanese authors.

10A-10B. Chinese Character Writing. (1-1) Yr. M, 1-3. CHEN

12A-12B. Japanese Character Writing. (1-1) Yr. S, 8-10. KUNO
Instruction in handling the brush, in making the various strokes, in forming the characters, and in different styles of writing.

UPPER DIVISION COURSES

Language Courses

*103A-103B. Elementary Study of the Chinese Written Language, Ancient and Modern. (3-3) Yr. WILLIAMS

*104A-104B. Advanced Study of Kuan-hua. (3-3) Yr. M W F, 10. —
Series of progressive advanced lessons and exercises in reading, speaking, and translation.

105A-105B. Elementary Study of the Classics and the Written Language of Japan. (2-2) Yr. Tu Th, 11. KUNO
Prerequisite: course 110A-110B.

Progressive selections from current literature and from standard Japanese classics and poetical works.

*106A-106B. Advanced Study of Japanese Classics. KUNO
Prerequisite: course 105A-105B. May be repeated without duplication of credit.

Interpretation of Hōjō-ki, Tsure-zuregusa, and Makura-no-sōshi.

107A-107B. Popular Reading Course in Japanese. (1-1) Yr. Tu, 2. KUNO
Designed primarily for California-born Japanese and students of other nationalities who desire to attain facility in reading modern literature, magazines, and newspapers. May be repeated without duplication of credit.

*108A-108B. Advanced Chinese Conversation. (2-2) Yr. —
M W, 11, and a third hour.
Prerequisite: course 8A-8B, or some practice in conversation.

*110A-110B. Advanced Study of the Japanese Spoken Language. KUNO
(3-3) Yr.
Prerequisite: course 9C-9D.

Series of progressive advanced lessons in reading, speaking, writing, translation, and composition.

* Not to be given, 1920-21.

112A-112B. Chinese Classics (Chinese Text). (1-1) Yr. W, 11. WILLIAMS
Readings from the Four Books, the Five Classics and other
standard works. May be repeated without duplication of credit.

*113A-113B. Reading of a Chinese Text. (2-2) Yr. —

*130A-130B. Chinese Composition. (2-2) Yr. M F, 1. —
Prerequisite: some knowledge of the modern written language.
Writing of letters and short essays.

Lecture Courses

109A-109B. History of Japanese Political Development and Civilization.
(2-2) Yr. Sec. 1, Tu Th, 1; Sec. 2, M W, 11. KUNO
Prerequisite: junior standing.

Prominent historical characters and events will be treated in
chronological order, so as to give a general view of the history of
Japan. Stress will be placed upon her political and social evolution
and the development of her civilization. About 700 pages of outside
reading are required in this course.

121A-121B. Japanese Life and Culture. (1-1) Yr. Th, 2. KUNO
Prerequisite: course 109A or 109B.

The social, economic and home life of Japan will be treated.
Considerable outside reading required.

*122A-122B. Japanese Religions and Ethics. (1-1) Yr. F, 2. KUNO
Prerequisite: course 109A-109B.

The development of Shintoism, Confucianism, Buddhism, Christian-
ity, and the modern Ethical System in Japan and their effect on her
civilization.

*123A-123B. Japanese Art; Poems and Folk-lore. (1-1) Yr. F, 2. KUNO

*124A-124B. International Relations of Oriental Countries. (1-1) Yr.
F, 2. KUNO

The political and intellectual relations of Japan, China, and
Korea, and their diplomatic relations with Occidental powers. From
400 to 500 pages of outside reading and a term paper of about 3500
words are required.

NOTE.—Courses 121, 122, 123, and 124 will form a series to be given
in successive years.

*126A-126B. The Religions of China. (2-2) Yr. M W, 10. —

*127. Chinese Industrial Art. (1) I. Continuation of 126A-126B.

128A-128B. Social and Economic Conditions of China. (1-1) Yr.
S, 9. WILLIAMS

129A-129B. Chinese History. (2-2) Yr. Tu Th, 9. WILLIAMS

*150A-150B. The Chinese Great Books. (2-2) Yr. —
Chinese philosophies and general literature.

* Not to be given, 1920-21.

GRADUATE COURSES

- 201A-201B. Review of New Books on China and Research. (2-2) Yr.
Tu, 10-12. WILLIAMS

Reviews of new books on China, research work, and reports by the students on assigned subjects.

- 203A-203B. Research and Critical Study of Modern Topics and of Books on Japan. (2-2) Yr. S, 10-12. KUNO

Prerequisite: at least senior standing, and the completion of 6 units in upper division courses in the department.

Class work will consist of lectures by the instructor and reports by students. May be repeated without duplication of credit.

PALAEONTOLOGY

JOHN C. MERRIAM, Ph.D., Professor of Palaeontology and Historical Geology, and Dean of the Faculties.

BRUCE L. CLARK, Ph.D., Assistant Professor of Palaeontology.

CHESTER STOCK, Ph.D., Instructor in Palaeontology.

EUSTACE L. FURLONG, Assistant in Palaeontology.

Announcements will be made later.

PATHOLOGY AND BACTERIOLOGY

- FREDERICK P. GAY, A.B., M.D., Professor of Pathology.
GLANVILLE Y. RUSK, A.B., M.D., Associate Professor of Pathology.
IVAN C. HALL, A.B., M.S., Associate Professor of Bacteriology.
T. D. BECKWITH, Ph.D., Assistant Professor of Experimental Pathology.
FRANK B. ROSSON, M.D., Instructor in Pathology.
RUTH L. STONE, Ph.D., Instructor in Pathology.
JEANETTE N. GAY, M.S., Edith Claypole Memorial Research Fellow in Pathology.
LEWIS F. MORRISON, A.B., Assistant in Bacteriology.
———, Assistant in Pathology.
Four Student Assistants in Bacteriology.

PREPARATION FOR THE MAJOR

Required: Bacteriology 1 (4); Chemistry 1A (5); Zoology 1A (4), 4, (1); Botany 2A-2B (6); Physics 2A-2B (6); French or German.

Recommended: Chemistry 1B (5); 8 (3), 9 (3).

Honors-students in the Upper Division.—Students in the upper division will be nominated by request to candidacy for honors on the basis of thoroughly satisfactory work in course 101. Honors will be recommended only for candidates who present a satisfactory thesis covering investigation in course 102 and whose record in other biological subjects is at least thoroughly satisfactory.

12 units in courses 101, 102 and 103 must be included in the major in bacteriology; 12 units of related subjects chosen by consultation with the instructor in charge of the student's work in the department may be applied toward the required 24 units.

The courses listed are given in Berkeley unless otherwise stated.

LOWER DIVISION COURSE**1. General Bacteriology and Microbiology. (4) II.**

HALL, MORRISON, and Student Assistants

Lectures, Tu Th, 8; laboratory: Sec. 1, M W F, 9-11; Sec. 2, M W F, 1-3; Sec. 3, Tu Th S, 10-12.

Prerequisite: Chemistry 1A. Fee, \$10. Deposit, \$5, subject to refund, less deduction for breakage at end of half-year.

History of bacteriology; morphology, classification, ecology, and metabolism of micro-organisms; sterilization; preparation of cultural media; microscopic examination, cultivation and identification of bacteria; introduction to microbiology of air, water, soil, foods (including milk), industrial processes, and certain human, animal and plant diseases.

UPPER DIVISION COURSES

101. Micro-organisms in their Relation to Disease. (7) I.

GAY, HALL, BECKWITH, STONE, MORRISON

Lectures, M Tu W Th F, 1; laboratory, M W F, 2-5, Tu Th, 2-4.
 Fee and deposit for non-medical students: fee, \$10; breakage and material, \$10, subject to refund less deduction at end of half-year.

The comparative etiology of disease with particular study of the animate agents thereof, the pathogenic bacteria and protozoa. The evolution of infectious diseases in the animal body (infection) and study of the methods of bodily defense against them (immunity). Study, gross and microscopic of the primary changes in fluids and tissues in experimental disease of infectious and non-infectious origin (experimental pathology).

The work consists of lectures and laboratory work. The laboratory work includes an outlined course and assigned problems. Required of all medical students. May be taken, with the consent of the instructor, by a few non-medical students who have passed Bacteriology 1 with high standing. The latter students should preferably have had training in comparative anatomy and histology.

102. Advanced Bacteriology and Experimental Pathology. Either half-year. Undergraduate research problems. The STAFF

103. Anaerobic Bacteriology. (5) II.

HALL

Lectures, W F, 9; laboratory, M W F, 10-12.

Prerequisites: course 101. Fee, \$5; deposit, \$5, subject to refund less deduction for breakage at end of half-year.

Historical; practical methods, anaerobes of the air, soil, and water and normal animal body; pathogenic anaerobes and the diseases caused by them.

104. General Pathology, Morbid Anatomy, and Histopathology. (6) II.

RUSK, ROSSON and Assistants

Tu W Th F, 2-5. Given at University Hospital, San Francisco.

Systematic discussion of changes in organs and tissues in the diseased human body; macroscopic lesions illustrated by fresh material from autopsies and museum preparations. The technique of autopsies and the making of protocols is included. Histopathology is taught through the use of a loan collection and preparations from the autopsies. Materials demonstrated. Primarily for students in medicine.

105. Morbid Anatomy and Histopathology. (2) I.

Laboratory, Tu Th, 2-5.

RUSK, ROSSON and Assistants

A continuation of course 104. An intensive study of the anatomy and histopathology of current autopsy material. Required of third-year medical students.

106. Clinical and Pathological Conferences. (1) I. F, 11.

RUSK

Given at University Hospital, San Francisco.

A coöperative review of the clinical and pathological materials. For third- and fourth-year students in medicine and the clinical sta

GRADUATE COURSES

201. **Research in Problems of Bacteriology, Infection, Immunity, and Experimental Pathology.** Either half-year. **The STAFF**
202. **Research in Neuropathology.** Either half-year. **RUSK**
Given at University Hospital, San Francisco.
203. **Advanced Morbid Anatomy and Histopathology.** Either half-year.
Given at University Hospital, San Francisco. **RUSK and Assistants**
Autopsy technique and the working up of tissues and cultures resulting from post-mortem examinations. Elective for fourth-year and graduate students in medicine.

PHILOSOPHY

CHARLES H. RIEBER, Ph.D., Professor of Logic.

GEORGE M. STRATTON, Ph.D., Professor of Psychology.

GEORGE P. ADAMS, Ph.D., Professor of Philosophy.

WARNER BROWN, Ph.D., Associate Professor of Psychology.

*CLARENCE I. LEWIS, Ph.D., Associate Professor of Philosophy.

JACOB LOEWENBERG, Ph.D., Assistant Professor of Philosophy.

OLGA L. BRIDGMAN, M.D., Ph.D., Assistant Clinical Professor of Abnormal Psychology.

EDWARD C. TOLMAN, Ph.D., Assistant Professor of Psychology.

STEPHEN C. PEPPER, Ph.D., Instructor in Philosophy.

PREPARATION FOR THE MAJOR

Required: 10-12 units chosen from courses 1A-1B (6 units), 2A (3), 3A-3B (6), 4A-4B (4). For students whose major work is primarily in psychology, courses in natural science may, with the consent of the department, be substituted for certain of the above courses.

Recommended: French and German.

Honors.—Candidates for the bachelor's degree with honors in philosophy will be expected to present programmes of study including courses in preparation for the major, and 24 units of upper division courses; all candidates to submit their programmes to the department for criticism and approval. It is possible for candidates for honors to arrange to do special work, in connection with the honors courses 198 and 199.

Courses in Other Departments.—Courses in social institutions (Teggart) will be accepted for all purposes of university credit as courses in the Department of Philosophy.

As part of the 24 units, required of candidates for honors in philosophy, students are urged to take courses in other departments according to their individual needs and interests. Attention is particularly called to courses dealing with the history of ideas and institutions, such as Economics 106, French 140A-140B, Greek 50, 51B, 61, 62, Jurisprudence 107A-107B, Political Science 101, Sanskrit 20, Semitic Languages 25.

LOWER DIVISION COURSES

Philosophy

1A. Deductive Logic. (3) I, M W F, 1; II, M W F, 2. RIEBER
Division, definition, the forms and transformations of judgment, the syllogism, and the deductive fallacies.

1B. Inductive Logic. (3) II, M W F, 1. RIEBER
The presuppositions and methods of inductive sciences.

*Absent on leave, 1920-21.

- 3A-3B. History of Philosophy. (3-3) Yr. M W F, 2. ADAMS
 The history of ideas in Europe from the beginnings of philosophy in Greece to the present time. The development of reflective thinking upon the fundamental topics of life and reality, and its relation to science, the arts, religion, and social institutions.
 First half-year: the period from 600 B.C. to the decline of Hellenistic culture, about 300 A. D.
 Second half-year: the development of medieval ideas and institutions and of the modern world.
- 4A-4B. Introduction to Philosophy. (2-2) Yr. Tu Th, 10. LOEWENBERG
 The aim and scope of philosophy. Relations to science and religion. Analysis of characteristic problems. Outlines and estimates of typical solutions.
- 36A-36B. Aesthetics. (2-2) Yr. Tu Th, 2. PEPPER
 Prerequisite: sophomore standing.
 Fundamental principles of the fine arts. Nature, origin, and development of the aesthetic experience.
- *45A-45B. Philosophies of Social Relations. (2-2) Yr. Tu Th, 2. LEWIS
 A critical survey of the philosophic basis of anarchism, individualism, socialism and communism. Fundamental ethical problems of political and economic organization. The points of view presented will be studied as they appear in the works of typical representatives—Stirner, Nietzsche, Tolstoi, Kropotkin, Hobbes, Hume, Rousseau, Marx, Sorel, and various contemporary writers.

Psychology

- 2A. General Psychology. (3) I. M W F, 3. STRATTON
 The course is prerequisite to all other work in psychology: it is not open to freshmen; sophomores on completing it may elect course 102.
 The facts of consciousness, their relation to one another and to the body. Demonstrations, lectures, and readings.

UPPER DIVISION COURSES

Philosophy

- (Students enrolling in courses in this group should have completed at least six hours of work in the lower division courses, 1A, 1B, 3A-3B, 4A-4B.)
- 103C-103D. Philosophy of the Nineteenth Century. (3-3) Yr. M W F, 2.
 I, Theoretical Tendencies. LOEWENBERG
 II, Ethical and Religious Ideals. PEPPER
 First half-year: Theoretic Tendencies and Ideas. General survey of some of the dominant theoretical tendencies of the nineteenth century, such as idealism, romanticism, materialism, positivism, evolutionism, naturalism.
 Second half-year: Ethical and Religious Ideals. The conception of God and of the destiny of man in German idealism; the ethics of romanticism and of "self-realization", Comte and the "religion of humanity"; Feuerbach and the Tübingen school; English naturalism and agnosticism; and English utilitarianism.
 The two halves of this course are supplementary; either may be taken independently.

* Not to be given, 1920-21.

104A-104B. Ethics. (3-3) Yr. M W F, 1.

ADAMS

First half-year: The primary factors of human nature and their bearing upon moral values and ethical theories. Conflicting ethical ideals of the present time, and their historical and psychological origins.

Second half-year: An analysis and an estimate, in terms of moral value and of ethical theory, of the present economic and political structure of society, with reference to present practical problems.

105. The Kantian Philosophy. (3) I. M W F, 3.

PEPPER

Prerequisite: course 3B or an equivalent knowledge.

An intensive study of the *Critique of Pure Reason*, and the *Foundation of the Metaphysics of Ethics*, with references to other philosophical works of Kant.

*109. Symbolic Logic. (3) II. M W F, 2.

LEWIS

Graphic and symbolic methods in logic, and some applications. An introduction to modern logistic theory and practice.

111. Fundamental Theoretical Problems. (3) II. M W F, 3.

LOEWENBERG.

A critical and constructive study of selected problems, particularly those touching the nature of knowledge and truth, the relation between will and reason, and the place of human selves in a world viewed as either rational or non-rational. The interpretation of these problems in the light of contemporary realism, pragmatism, and the philosophy of Bergson.

*112. Philosophy of Religion. (3) I. M W F, 3.

ADAMS

A survey of present day theories of the nature of religion and its psychological and social origins. The relation between religion and modern ideals of life and society.

*114. Theory of Knowledge. (2) I. Tu Th, 9.

RIEBER

Prerequisite: courses 1A, 1B.

An intensive study of the morphology of the concepts, the import of propositions, and the principles of inference.

*115. Logic of Science. (2) II. Tu Th, 9.

RIEBER

Prerequisite: courses 1A, 1B.

The relation of the other sciences to mathematics and logic; the use of hypotheses in science; modern methods of verification and modern ideas about scientific truth.

116. Plato. (3) I. M W F, 2.

RIEBER

The chief dialogues of Plato will be read in translation.

120A-120B. Philosophy of Nature. (2-2) Yr. M W, 11.

PEPPER

Conceptions of the world we live in. Man's place in nature. The character, validity, and limits of natural science. Relations between natural law and human evaluations.

* Not to be given, 1920-21.

- 121A-121B. Philosophy of History. (2-2) Yr. Tu Th, 1. ADAMS

Selected problems in the analysis and interpretation of historical and social processes, such as the problem of method in the social sciences, the concept of "laws" of history, and the relation between economic, psychological and other factors in social evolution. A survey of contemporary theories of history and society.

- *123. Post-Kantian Idealism. —

Prerequisite: course 105.

Fichte, Schelling and Hegel: the development of the Kantian philosophy in Germany.

- *135. Contemporary Tendencies in Philosophy. (2) II. —

Exposition and criticism of current philosophical theories—naturalism, realism, pragmatism, and idealism. Some consideration of the influence of these several views in France, England, Germany, and America.

- *139. Royce's Philosophy of the Community. (3) I. M W F, 2.

LOEWENBERG

A detailed study of the nature of the self and of the social order as formulated in Josiah Royce's *The Philosophy of Loyalty, The Problem of Christianity, War and Insurance, The Hope of the Great Community*, and in other of his writings. The application of Royce's ethical ideas to current issues, national and international. The value of his doctrine of the community for science and religion.

- 146A-146B. Literary Expressions of Philosophic Problems. (2-2) Yr.

Tu Th, 11.

LOEWENBERG

An interpretation of literature as a source of philosophic ideas. Comparison between philosophic and literary expressions of typical problems. A detailed discussion of idealism, realism, mysticism, romanticism, classicism, and other human attitudes as reflected in literature and formulated in philosophy. Examples will be chosen from English literature as well as from Goethe, Tolstoi, Ibsen, Anatole France, and others. 146B will not be open to those who have not taken 146A.

198. Honors Course.

The Staff in Philosophy

Psychology

Fees.—A fee of \$5.00 each half-year will be charged in laboratory courses in psychology, i.e., courses 106, 107, 140A-140B, and 151A-151B.

Prerequisite.—Course 2A is prerequisite to all upper division courses in psychology.

102. Applied Psychology. (3) II. M W F, 3. STRATTON

Open to sophomores who have completed course 2A, which is also the prerequisite for upper division students who wish to take this course.

Certain results of modern psychology bearing upon the work of the lawyer, the physician, the teacher, the clergyman, and the merchant.

106. Introduction to Psychological Experiments. (3) I or II. BROWN
 Tu Th and alternate S, 10-12.
 Sensation, perception, emotion, movement, attention, memory, imagination, habit. Laboratory, lectures, and reading.
107. Introduction to Psychological Measurement. (3) I or II.
 M W, 3-5, F, 3-4. TOLMAN, BROWN
 Experiments illustrating methods of testing and measuring mental processes, particularly the methods in applied and clinical psychology.
110. Educational Psychology. (3) I. Tu Th and alternate S, 9.
 One hour laboratory to be arranged. BROWN
 The process of learning; the acquisition of habits and of skill; association; memory; imitation; reasoning; emotion; tendencies to action; individual differences.
- *124A-124B. History of Psychology. STRATTON
 Psychological observations, theory, and method, through early Hindu and Greek thought to the present time.
125. Advertising. (2) II. Tu, 7:30 P.M. BROWN
 Prerequisite: course 2A and Economics 1A-1B.
 The principles governing the choice of media, the choice of methods of appeal, the amount and nature of the matter, with emphasis upon experimental methods of measuring the effectiveness of advertising. The relation of advertising to marketing. Lectures, investigations, and criticism of advertisements.
133. Advanced General Psychology. (3) II. M W F, 9. TOLMAN
 Prerequisite: course 2A and either 3A or 4A.
 Contemporary discussions of sensation, perception, attention, the self, the will, mind and body, structuralism, functionalism, and behaviorism.
- 140A-140B. Psychological Experiments: Advanced. (3-3) Yr. BROWN
 Not less than 6 hrs., throughout the year; 3 units.
 Th, 1, and by appointment. Prerequisite: course 106 or 107.
 Each student will conduct a special investigation, but all will work upon phases of a single problem. Experiments, reading, and discussion.
- *141A-141B. Psychological Conference. STRATTON
 Reading, with discussion, of selected topics in psychology.
- 142A-142B. Abnormal Psychology. Elementary. (2-2) Yr. Tu Th, 3. BRIDGMAN
 A study through lectures, reading, and clinical demonstration, of the more important phases of abnormality in children.
- 143A-143B. Abnormal Psychology. Advanced. (2-2) Yr. Tu Th, 2. BRIDGMAN
 Prerequisite: courses 106 or 107, and 142A-142B.
 Special problems, with field work.

* Not to be given, 1920-21.

- 145A-145B. Social Psychology. (2-2) Yr. Th, 2-4.

STRATTON

The instincts that create and endanger social life; their modification and interplay. Particular attention will be given to the manifestations of anger and pugnacity.

150. Animal Psychology. (3) I. M W F, 2.

TOLMAN

Problems in the behavior and consciousness of animals: sensation, ideation, learning. Methods and results.

- 151A-151B. Experiments in Animal Behavior. (2-2) Yr. Tu, 1. TOLMAN

Prerequisite: course 150, unless taken concurrently.

Each student will conduct a special investigation on the sensations, instincts or learning of the higher vertebrates. Experiments, reading and discussion. Not less than 4 hours, to be arranged.

- 199A-199B. Honors Course.

The Staff in Psychology

GRADUATE COURSES

Before enrolling in graduate courses students should consult the instructor concerning their qualifications.

- 210A-210B. Seminar in the History of Philosophy. (2-2) Yr. M, 4-6.

LOEWENBERG

Topic for 1920-21: Studies in William James and Josiah Royce.

- 211A-211B. Seminar in Logic. (2-2) Yr. Th, 4-6.

RUEBER

Topic for 1920-21: Personal idealism, with special reference to the philosophy of Howison.

- 212A-212B. Seminar in Ethics. (2-2) Yr. W, 4-6.

ADAMS

Topic for 1920-21: The application of scientific method to the problem of value.

- 213A-213B. Psychological Research. (3-3) Yr. Tu, 4-6.

The Staff in Psychology.

Not less than 6 hrs., throughout the year.

The investigation of special problems selected with regard to the individual interest of those electing the work; reports and discussions.

In addition to the foregoing courses, special lines of study will be arranged for qualified graduates who are candidates for higher degrees, or who wish to carry on advanced work.

299. Thesis for the Master's Degree.

PHYSICAL EDUCATION FOR MEN

FRANK L. KLEEGERGER, M.A., Professor of Physical Education and Director of Men's Gymnasium.

*WALTER E. MAGEE, Professor of Physical Culture.

EARL H. WIGHT, M.A., Instructor in Physical Education.

CLARENCE M. PRICE, B.S., Instructor in Physical Education.

C. S. BOTSFORD, Instructor in Physical Education.

CHARLES W. ANDREWS, Special Assistant in Wrestling.

R. E. JOHNSON, Special Assistant in Boxing.

PREPARATION FOR THE MAJOR

Required: Chemistry 1A (5); Zoology 1A (4); Hygiene 3 (3).

GENERAL ORGANIZATION

Plan of Prescribed Work.—Intrants are classified for their prescribed work on the basis of physical efficiency, determined through tests of health, strength, endurance, agility, ability to swim, and skill in self-defense. Men qualified for the athletic division may take regular work in any type of sport from golf to football. Men failing so to qualify, but not found defective in any essentials of health or bodily conformation, will meet for gymnastic drill during the first three weeks, and will be gradually assigned after medical examination and consultation with the director, to work adapted to their special needs. The aim of the department is to promote men as quickly as possible into the athletic division. Men showing abnormality of bodily conformation or physical defects of any sort are classed as "special" and are given individual work and advice based on the data of the medical and physical examinations. Ability to swim a distance of fifty yards is a department requirement which must be satisfied by all male students before receiving final credit for the required two units of physical education. The requirement in swimming may be waived where physical deficiency makes such procedure advisable. At the end of each college year tests will be held for those who wish to qualify for the honors-division.

Under the regulations any of the courses listed as lower division work may be taken in satisfaction of the University requirements of two units in physical education. The letters A and B for lower division courses denote the work as taken for credit during the two terms respectively, of the freshman year, while the letters C and D similarly represent the work done in the same courses when taken for sophomore credit. Two periods each week throughout the freshman and sophomore years and a satisfactory showing in the swimming test cover the requirement.

* Absent on leave, 1920-21.

EXPENSES OF STUDENTS

The Gymnasium Fee of \$2.00 is included in the gymnasium and infirmary fee of \$5.00, payable by all students, undergraduate or graduate, at the beginning of each half-year of residence. The fee covers the expense entailed by the University in providing athletic equipment, tennis courts, swimming pool, shower baths and wash-room facilities for the use of students at various points about the campus. Locker accommodations are also provided for freshmen and sophomores; for upper classmen enrolled in the Department of Physical Education; for athletic teams and as far as possible for other students.

Gymnasium Suit Fee.—The amount of the gymnasium suit fee varies with the year of residence of the student concerned and covers the use, laundry, and repair of all types of gymnasium and athletic clothing with the exception of shoes, for the entire period of residence. For freshmen and sophomores the fee amounts to \$4.00; for juniors who have not paid the gymnasium suit fee as freshmen or sophomores, \$2.00, and for senior and graduate students who have not previously paid the fee, \$1.00.

Fines.—A fine of \$1.00 is imposed for each failure to comply with the regulations of the department as follows: (a) Failure to return equipment or clothing drawn from the gymnasium stockroom on or before the date posted for such return at the end of each half-year or at the end of each special session of the University. (b) Failure to return athletic supplies (balls, bats, etc.) within the twenty-four hour limit set for the use of such equipment. (c) Failure to comply with the directions issued for the use of lockers at the time of their assignment. (d) Failure to meet the appointment for the physical examination.

LOWER DIVISION COURSES

Note.—All courses are offered either half-year.

- 1A, B, C, or D. *Gymnastics.* ($\frac{1}{2}$). WIGHT, BOTSFORD
Sec. 1, M W, 10; Sec. 2, Tu Th, 10; Sec. 3, Tu Th, 11; Sec. 4, M W, 3; Sec. 5, Tu Th, 3; Sec. 6, M W, 4; Sec. 7; Tu Th, 4.

Athletic dancing and setting-up drills, apparatus and tumbling.

- 2A, B, C, or D. *Special Gymnastics.* ($\frac{1}{2}$). KLEEGER, BOTSFORD
Sec. 1, M W, 2; Sec. 2, Tu Th, 2.

Corrective gymnastics; special attention is given to men with postural defects and adnormal conditions.

- 3A, B, C, or D. *Track.* ($\frac{1}{2}$). PRICE
Sec. 1, M W, 10; Sec. 2, Tu Th, 10; Sec. 3, M W, 3; Sec. 4, Tu Th, 3; Sec. 5, M W, 4; Sec. 6, Tu Th, 4.

Open to men enrolled on the Varsity or Freshman squads.

- 4A, B, C, or D. *Baseball.* ($\frac{1}{2}$). PRICE
Sec. 1, M W, 3; Sec. 2, Tu Th, 3; Sec. 3, M W, 4; Sec. 4, Tu Th, 4; Sec. 5, M W, 5; Sec. 6, Tu Th, 5.

Instruction in the elements of individual and team play and participation in informal games. Special games arranged for competition on Fridays and Saturday mornings.

5A, B, C, or D. Basketball. (½).

WIGHT, PRICE

Sec. 1, M W, 9; Sec. 2, Tu Th, 9; Sec. 3, M W, 10; Sec. 4, Tu Th, 10; Sec. 5, M W, 11; Sec. 6, Tu Th, 11; Sec. 7, M W, 3; Sec. 8, Tu Th, 3; Sec. 9, M W, 4; Sec. 10, Tu Th, 4.

Instruction in the elements of individual and team play and participation in informal games. Special games arranged for competition on Fridays and Saturday mornings. Sections limited to twenty men each.

6A, B, C, or D. Tennis. (½).

KLEEBERGER

Sec. 1, M W, 8; Sec. 2, Tu Th, 8; Sec. 3, M W, 9; Sec. 4, Tu Th, 9; Sec. 5, M W, 10; Sec. 6, Tu Th, 10; Sec. 7, M W, 11; Sec. 8, Tu Th, 11.

Instruction in the elements of individual and team play and participation in informal games. Special games arranged for competition on Fridays and Saturday mornings. Games and tournaments under supervision.

7A, B, C, or D. Boxing. (½).

JOHNSON

Sec. 1, M W, 8; Sec. 2, Tu Th, 8; Sec. 3, M W, 9; Sec. 4, Tu Th, 9; Sec. 5, M W, 10; Sec. 6, Tu Th, 10; Sec. 7, M W, 11; Sec. 8, Tu Th, 11; Sec. 9, M W, 2; Sec. 10, Tu Th, 2; Sec. 11, M W, 3; Sec. 12, Tu Th, 3; Sec. 13, M W, 4; Sec. 14, Tu Th, 4.

Principles of position, balance, footwork and blows.

8A, B, C, or D. Wrestling. (½).

ANDREWS

Sec. 1, Tu Th, 8; Sec. 2, M W, 9; Sec. 3, Tu Th, 9; Sec. 4, M W, 10; Sec. 5, Tu Th, 10; Sec. 6, Tu Th, 11; Sec. 7, M W, 2; Sec. 8, Tu Th, 2; Sec. 9, M W, 3; Sec. 10, Tu Th, 3; Sec. 11, M W, 4; Sec. 12, Tu Th, 4.

Preparatory exercises for special development the various holds, their counters and the general theory of weight control.

9A, B, C, or D. Fencing. (½).

KLEEBERGER

Sec. 1, M W, 1; Sec. 2, Tu Th, 1.

Class exercise with the single-stick, broad-sword, foil, and bayonet, followed by practice in personal combat.

10A, B, C, or D. Swimming. (½).

KLEEBERGER

Sec. 1, M W, 2-2:30; Sec. 2, Tu Th, 2-2:30; Sec. 3, M W, 2:30-3; Sec. 4, Tu Th, 2:30-3; Sec. 5, M W, 3-3:30; Sec. 6, Tu Th, 3-3:30.

Personal and class instruction in the various strokes. Demonstrations and practice in methods of rescue and resuscitation. Instruction in the art of diving.

12A, B, C, or D. Soccer. (½).

PRICE

Instruction in the elements of individual and team play and participation in informal games. Special games arranged for competition on Fridays and Saturday mornings.

13A, B, C, or D. Football. (½).

PRICE

Sec. 1, Rugby; Sec. 2, American.

Open to men enrolled on the varsity or freshman squads.

14A, B, C, or D. Class Games. (½).

BOTSFORD

Playground baseball, volleyball, field hockey and mass athletics.

- 15A, B, C, or D. Handball. (4). BOTSFORD
- 16A, B, C, or D. Recreation. (4). BOTSFORD
Cross-country walking, horseback riding, golf, bag punching, etc.
- 17A, B, C, or D. Tumbling. (4). BOTSFORD
Sec. 1, M W, 4; Sec. 2, Tu Th, 4.
Elementary tumbling and apparatus work.
- 18A, B, C, or D. Crew. (4). KLEEGER
Open to men enrolled on the varsity or freshman squads.

UPPER DIVISION COURSES

- 110A. Physiology and Hygiene of Exercise. (2) II. Tu Th, 1. KLEEGER
Prerequisite: Physiology 1.
Physiology in its interpretation of the phenomena resulting from exercise. The influence of various types of exercise upon the nutrition, circulation, respiration and nervous functioning. A discussion of the hygienic significance of diet, ventilation, exercise, personal habits, etc. The physiological bearing of hydrotherapy, balneotherapy, electrotherapy, and massage, in the treatment of scar tissue, ankylosed joints, inflammations, and athletic injuries.
- 101A. Construction and Administration of Playgrounds, Swimming Pools and Gymnasias. (1) I. F, 3.
The development and meaning of the playground movement. Recreational surveys and promotion. Adaptation of various types of physical recreation to community needs. Leisure time activities for adults. Administration and supervision of school and municipal playgrounds. Qualifications and duties of directors. Playground and gymnasium construction. Problems of equipment and general maintenance.
- 122A. Athletic Supervision. (1) II. Th, 1. WIGHT
Consideration of the problems involved in organization and administration of athletics for various types of institutions such as schools, athletic clubs, industrial plants, etc. The promotion of tournaments, athletic meets, leagues, etc. The problem of mass vs. specialized athletics. The promotion of intra-mural sports and of participation in unorganized recreative sports. Educational analysis and ideals.
- 300A. Methods and Practice in Teaching Playground Activities. (1) II. F, 3. BOTSFORD
Discussion and practical experience with reference to the organization and direction of playground activities, athletic, dramatic, social and educational for child and adult. The technique of group, team and individual games. Organization and conduct of leagues, meets, pageants and the daily routine of work. This course is conducted as a field course and actual participation in the playground activities is demanded if credit is desired.

301A, B, C, or D. Methods and Practice in Coaching Athletics. (1-1).

KLEEGERGER and the STAFF

Prerequisite: courses 122A, 3, 4, 5, 7, 8, 10, 12, 13, and 17.

Students will enroll on the varsity squads of not less than two different sports each half-year with the exception of the half-year devoted to football. Repetition of a sport for credit will not be permitted. The sports to be covered are American football, baseball, basketball, track, soccer, Rugby, swimming, boxing, wrestling and gymnastics. Men enrolled in this course will meet in conference each week with the coach for discussion of the theoretical phases of the sport and explanation of methods used in coaching, training and planning season campaigns. Written examinations will be required as well as a demonstration of ability to coach and perform in the sports taken during a given half-year. 2 hrs., each half-year of the junior and senior years.

PHYSICAL EDUCATION FOR WOMEN

RUTH ELLIOTT, A.B., Assistant Professor of Physical Education.

SARAH R. DAVIS, Assistant Professor of Physical Education.

CAROLINE COLEMAN, A.B., Associate in Physical Education.

FRANCES BOCKIUS, A.B., Associate in Physical Education.

JOSEPHINE GUION, A.B., Associate in Physical Education.

VIOLET MARSHALL, Associate in Physical Education.

— — —, Associate in Physical Education.

EDITH UELAND, M.A., Assistant in Physical Education.

For information concerning the major in Physical Education and the requirements for the High School Teacher's Recommendation see the Announcement of the School of Education.

LOWER DIVISION COURSES

52A-52B. Prescribed Course for Freshmen. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.

Required of all undergraduate women not enrolled in courses 53A-53B or 54A-54B during the first year of their attendance at the University.

Sec. 1, Tu Th, 9; Sec. 2, Tu Th, 10; Sec. 3, Th S, 10; Sec. 4, Tu S, 11; Sec. 5, Tu Th, 3; Sec. 6, Tu Th, 3; Sec. 7, M F, 9; Sec. 8, M W, 9; Sec. 9, M W, 10; Sec. 10, M F, 10; Sec. 11, M W, 11; Sec. 12, M W, 2; Sec. 13, M F, 2; Sec. 14, — —, (for students entering in January, 1921); 52A, Sec. 15, M W, 9; Sec. 16, M W, 3; Sec. 17, Tu Th, 4 (for students who entered in January, 1920); 52B, Sec. 15, Tu S, 9; Sec. 16, M W, 11; Sec. 17, Tu Th, 4.

52C-52D. Prescribed Course for Sophomores. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.

Required of all undergraduate women not enrolled in courses 53C-53D or 54C-54D during the second year of their attendance at the University. Prerequisite: course 52A-52B.

Sec. 1, Tu Th, 9; Sec. 2, Tu S, 10; Sec. 3, Tu Th, 2; Sec. 4, W F, 9; Sec. 5, M W, 10; Sec. 6, W F, 2; Sec. 7, M F, 3; Sec. 8, Th S, 9; Sec. 9, W F, 10; Sec. 10, W F, 3; 52D, Sec. 11, Tu Th, 4; Sec. 12, M W, 9.

53A-53B. Corrective Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.

Required instead of course 52A-52B of first-year students whose medical and physical examinations indicate the need of corrective exercises.

Sec. 1, Tu Th, 9; Sec. 2, Tu Th, 10; Sec. 3, Tu Th, 2; Sec. 4, M W, 9; Sec. 5, M W, 10; Sec. 6, M W, 2.

53C-53D. Corrective Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.

Required instead of course 52C-52D of second-year students whose medical and physical examinations indicate the need of corrective exercises. Prerequisite: course 53A-53B.

Sec. 1, Tu Th, 11; Sec. 2, M W, 11.

54A-54B. Restricted Exercise. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Tu Th, 2.

Required instead of course 52A-52B of first-year students whose medical and physical examinations indicate the need of restricted work.

54C-54D. Restricted Exercise. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Tu Th, 10.

Prerequisite: course 54A-54B.

Required instead of course 52C-52D of second-year students whose medical and physical examinations indicate the need of restricted work.

55A-55B. Corrective Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.

Prerequisite: courses 53A-53B, 53C-53D.

60A-60B. Folk Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Tu Th, 11.

Prerequisite: courses 52A-52B, 52C-52D. Open to juniors and seniors.

60C-60D. Folk Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. M W, 3.

Prerequisite: course 60A-60B.

61A-61B. Classic Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. M W, 2.

Prerequisite: courses 52A-52B, 52C-52D. Open to juniors and seniors.

61C-61D. Classic Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Tu Th, 3.

Prerequisite: course 61A-61B.

64. Dancing: Parthenia Practice. (No credit.) II.

Prerequisite: for freshmen, enrollment in course 52A-52B; for students other than freshmen, one course in dancing in the department.

65A-65B. Gymnastics for Juniors. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. M W, 11.

Prerequisite: courses 52A-52B, 52C-52D.

65C-65D. Gymnastics for Seniors. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Tu Th, 11.

Prerequisite: course 65A-65B.

66A-66B. Gymnastics for Graduate Students. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Tu Th, 11.

Prerequisite: courses 65A-65B, 65C-65D.

74A-74B. Swimming. (No credit.) Yr.

Sec. 1, advanced; Sec. 2, intermediate; Sec. 3, elementary.

84A-84B. General Recreative Course (No credit.) Yr. Tu Th, 5.

Open with the consent of the instructor to students not taking other work in the department and to women of the faculty, also to women employees of the University.

UPPER DIVISION COURSES

151. Kinesiology. (3) I. M W F, 1.

Prerequisite: Anatomy 102.

152. Theory and Practice of Corrective Gymnastics. (2) II.

M W, 1, and 1 other hour. Prerequisite: course 151.

153A-153B. Practice of Corrective Gymnastics. (1-1) Yr. S, 9-12.

Prerequisite: course 152.

155. **Theory and Practice of Massage.** (1) II. F, 1-3.
Prerequisite: courses 151-152.
- 160A-160B. **Theory and Practice of Teaching Folk Dancing.** (1-1) Yr.
F, 8. Prerequisite: course 60A-60B.
- 161A-161B. **Theory and Practice of Teaching Classic Dancing.** (1-1) Yr.
W, 1. Prerequisite: course 61A-61B.
162. **Theory and Practice of Rhythmic Plays, Games, and Story Plays.**
(2) I. M W, 8.
- 165A-165B. **Theory and Practice of Gymnastic Teaching.** (2-2) Yr.
Tu Th, 8. Prerequisite: courses 65A-65B, 151, and consent of the
instructor.
170. **Theories of Play, School, and Playground Games.** (2) II. M W, 8.
- 171A-171B. **Theory and Practice of Athletic Supervision.** (1-1) Yr. Th, 1.
Prerequisite: a working knowledge of at least two team games.
175. **Theory and History of Physical Education and Recreation.** (3) II.
M W F, 3. Prerequisite: courses 160A, 170, 165A.

GRADUATE COURSES

250. **Seminar. II.**
Prerequisite: course 175.
Topic for the year 1920-21: Current Tendencies in Physical Edu-
cation.
300. **Teaching of Physical Education.**
Prerequisite: course 165A-165B. Recommended in connection with
Education 320.

PHYSICS

E. PERCIVAL LEWIS, Ph.D., Professor of Physics.
 FREDERICK SLATE, B.S., Professor of Physics, Emeritus.
 ELMER E. HALL, Ph.D., Professor of Physics.
 RALPH S. MINOR, Ph.D., Professor of Physics.
 WILLIAM J. RAYMOND, B.S., Associate Professor of Physics.
 LLOYD T. JONES, Ph.D., Assistant Professor of Physics.
 RAYMOND T. BIRGE, Ph.D., Assistant Professor of Physics.
 WILLIAM H. WILLIAMS, Graduate, United States Military Academy, Instructor in Physics.
 ELMER DERSHEM, Ph.D., Instructor in Physics.
 RAYMOND B. ABBOTT, Ph.D., Associate in Physics.
 WILLIAM C. POMEROY, M.S., Associate in Physics.
 WILLIAM R. STAMPER, Mechanician.
 Fourteen assistants.

The work in physics is carried on in South Hall. The equipment of the laboratories and research rooms with apparatus is modern and extensive including many standards of precision. The equipment is being continually supplemented by purchase from manufacturers and by original construction in the work-shop of the department where three competent instrument makers are employed. The library facilities for original investigation in physics are unusually ample. The University Library contains complete sets of all of the important physical journals, and the proceedings and transactions of most of the academies and other societies.

As a basis for admission to college work in physics the student should present either (1) the high school course in physics, or (2) three years of high school mathematics, including trigonometry, and high school chemistry. Courses 1A-1B to 4A-4B are fundamental and designed to meet the needs of students preparing for applications of physics in the Colleges of Engineering, Chemistry, and Medicine, or for advanced work in the subject itself.

PREPARATION FOR THE MAJOR

Required: Physics 1A-1B, 4A-4B (12), or 2A-2B, 3C-3D (10); Mathematics 3A-3B (6), or 5, 9 (6); Chemistry 1A-1B (10).

Recommended: French or German.

No special courses are given for honors-students. Provision is made for instruction of a special character in the cases of individuals who seem prepared and inclined to profit by it. See course 119A-119B.

No special requirements, in addition to those prescribed by the Graduate Division, are laid down for the Master's degree or for the degree of Doctor of Philosophy, except that in general an experimental thesis will be required.

Laboratory Fees.—The deposit for all laboratory courses is at the rate of \$5 per half-year for each laboratory exercise a week, but no deposit or fee is required for research courses 216, 218, and 299. The fees are: 3A, 3B, 3C, 3D, 4A, 4B, 18, \$4 per laboratory unit per half-year; for course 115A-115B, \$5, and for other courses \$3 per laboratory unit per half-year.

LOWER DIVISION COURSES

Prerequisite for all lower division courses: either (1) the high school course in physics, or (2) three years of high school mathematics, including trigonometry, and the high school course in chemistry.

Course 2A-2B is prerequisite to courses 111A, 112A, 113.

1A-1B. General Physics. (3-3) Yr. (For students in Engineering, Chemistry, and Architecture only.) MINOR, BIRGE, POMEROY

Lectures: Sec. 1, M F, 1; Sec. 2, Tu Th, 1; Sec. 3, Tu Th, 3. Twenty-one recitation sections.

Mechanics, properties of matter, and heat. Two lectures and one recitation each week.

2A-2B. General Physics. (3-3) Yr. (Primarily for non-engineering students.) LEWIS, MINOR

Lectures: Sec. 1, M W F, 3; Sec. 2, M W F 9. Sec. 1 elective in the College of Letters and Science. Sec. 2, for premedical students. Prerequisite may be waived in cases of distinct merit.

Lectures with experimental illustration and problems. Properties of matter, mechanics, heat, sound, light, electricity and magnetism.

3A-3B. Physical Measurements. (1-1) Yr. MINOR, DERSHEM

Sec. 1, M, 1-4; Sec. 2, Tu, 1-4; Sec. 3, Th, 1-4; Sec. 4, F, 1-4.

For students in the pre-medical curriculum.

Experimental work in mechanics, properties of matter, heat, sound, light, electricity and magnetism, requiring quantitative results. Laboratory exercises once a week, usually taken in conjunction with 2A-2B.

3C-3D. Physical Measurements. (2-2) Yr. MINOR, DERSHEM

Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4. Subject matter identical with course 3A-3B.

4A-4B. General Physics. (3-3) Yr. (Primarily for students in the Colleges of Engineering.) HALL, JONES, ABBOTT

Lectures: Sec. 1, Tu Th, 8; Sec. 2, Tu Th, 10; Sec. 3, W, 1, S, 8; laboratory: Sec. 1, M, 8-11; Sec. 2, M, 1-4; Sec. 3, Tu, 9-12; Sec. 4, Tu, 1-4; Sec. 5, W, 8-11; Sec. 6, W, 1-4; Sec. 7, Th, 9-12; Sec. 8, Th, 1-4; Sec. 9, F, 8-11; Sec. 10, F, 1-4; Sec. 11, S, 9-12.

Magnetism, electricity, wave motion, sound and light, presented as a continuation of 1A-1B. Two lectures and one laboratory exercise each week.

18A-18B. Special Undergraduate Study. MINOR

All special work of lower division grade. Credit value to be fixed in each case. By special arrangement this course may be made the equivalent of parts of the regular work of courses 1A-1B, 3C-3D, 4A-4B.

UPPER DIVISION COURSES

Students who plan to enter any of the courses assigned to "The Staff" are directed to confer with the chairman of the department before enrolling. Courses 118A-118B, 119A-119B, 219A-219B are laid out by special agreement and are designed to introduce students to advanced topics in preparation for the systematic study which is the aim of the upper division and graduate work.

104A-104B. Vector Analysis. (2-2) Yr. M F, 8.

WILLIAMS

The elements of vector analysis with special emphasis upon its application to physics. This course is intended to serve as a general introduction to theoretical physics, wherein the fundamental equations are developed and discussed by means of the concise and physically significant algebra of vectors.

105A-105B. Analytic Mechanics. (3-3) Yr. M W F, 9.

RAYMOND

Prerequisite: the high school course in physics and working power in the differential and integral calculus.

The mathematical treatment of principles of dynamics that are fundamental, illustrated by problems and applications.

106. History of Physics. (2) II. M W, 11.

CAJORI

Development of the experimental method; evolution of laboratories; critical periods in the history of hypotheses. A course designed more especially for teachers. Identical with Mathematics 106.

107A-107B. Electrical Measurements. (3-3) Yr.

RAYMOND

I, Lect., Tu Th, 10; lab.: Sec. 1, Tu; Sec. 2, W; Sec. 3, F, 1-4. II, Lect., Th, 10; lab.: Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4; Sec. 3, W, 1-4, S, 9-12. Prerequisite: course 4A-4B and the differential and integral calculus.

The principles of electricity and magnetism, with applications to the measurement of magnetic field, direct and alternating electric current, electro-motive force, resistance, power, illumination, magnetic permeability and the energy losses in iron, electric capacity, inductance and impedance. Calibration and use of the more important types of measuring instruments.

108A. Physical Optics. (2) I. Tu Th, 9.

MINOR

Prerequisite: courses 2A-2B and Mathematics 9.

Lectures, with experimental illustrations and recitations, on selected topics in light.

108B. Polarized Light. (2) II. Tu Th, 1-4.

MINOR

Prerequisite: courses 2A-2B, 3C-3D, or their equivalents.

Laboratory work, with occasional lecture. Methods of producing and detecting plane, circularly, and elliptically polarized light. Practical applications in crystallography, saccharimetry, and metallic reflection. Optical activity.

110A-110B. Electricity. (2-2) Yr. Tu Th, 8.

JONES

Prerequisite: the equivalent of course 2A-2B and working power in differential and integral calculus.

Elementary mathematical theory of electricity and magnetism.

- 111A. Electric Discharge Through Gases. (2) I. M F, 9. LEWIS
Lectures, experimentally illustrated, on phenomena of the flame and electric arc, spark, and vacuum tube: and on cathode rays, X-rays, and radio-activity. This course is recommended as preliminary to course 211.
- *112A. Energetics. (2) II. Tu Th, 10. HALL
A non-mathematical account of forms and transformations of energy.
- 112B. Pyrometry and Heat Measurements. (2) I. Tu Th, 1-4. HALL
Selected problems in pyrometry and heat measurements adapted to students in physics, chemistry and engineering. Laboratory work with readings and discussions.
- *113. Geometrical Optics. (2) II. Tu Th 9. MINOR
Geometrical methods applied to the optics of mirrors, prisms, and lenses.
- *114. Sound. (2) II. RAYMOND
Prerequisite: the equivalent of course 2A-2B and working power in differential and integral calculus.
Laboratory work with occasional lectures and discussions. An experimental treatment of sound sources, and of progressive and stationary waves of sound.
- 115A-115B. Laboratory Technique. (1-1) Yr. Th, 1-4. JONES
General ideas underlying the construction and adaptation of apparatus for research. Adjustments and laboratory technique, including glass blowing.
- 116A-116B. Thermionic Measurements. (1-1) Yr. ABBOTT
Prerequisite: course 107A-107B or equivalent.
Laboratory measurements of vacuum tube characteristics, wave forms and wave lengths.
- 118A-118B. Special Undergraduate Study (Laboratory). Yr. The STAFF
All special laboratory work of upper division grade not included in courses announced above. Credit value to be fixed in each case.
- 119A-119B. Special Undergraduate Study (Readings). Yr. The STAFF
Selected topics for reading, intended primarily for honors students.

GRADUATE COURSES

- *205A-205B. Advanced Dynamics. (3-3) Yr. M W F, 1. WILLIAMS
Prerequisite: 105A-105B or its equivalent.
The generalized dynamical methods of Lagrange, Hamilton and Jacobi and their application to selected problems in the mechanics of particles and of rigid bodies; together with an introduction to the theory of elasticity and hydrodynamics.

* Not to be given, 1920-21.

- 206A-206B. Harmonic Motion, Electric Waves and Oscillations. (2-2)
Yr. Tu Th, 8. RAYMOND

Prerequisite: courses 2A-2B and 105A-105B or equivalents.

The analytical treatment of vibratory and wave motion, with applications to sound, light, and electricity. Lectures with experimental illustrations.

- 207A-207B. Thermionic Conduction. (2-2) Yr. M W, 9. ABBOTT

Mathematical theory of thermionic emission, conduction and regenerative oscillations in vacuum tubes with applications to radio communication and laboratory work.

- 210A-210B. Electron Theory. (3-3) Yr. M W F, 1. WILLIAMS

Prerequisite: some knowledge of elementary electromagnetic theory and familiarity with vector analysis.

The electron theory of matter and its application to the more important phenomena of radiation and to the electric, magnetic and thermal properties of bodies.

211. Spectroscopy. (2) II. M F, 9. LEWIS

Prerequisite: course 108A. Course 111A will also be found helpful.

Lectures with experimental illustrations, on methods and results of investigation, and theories of radiation and atomic structure.

212. Thermodynamics. (2) I. M W, 11. HALL

Largely the so-called classical treatment. The two fundamental laws, entropy, and potential with application to various problems in physics, including radiation.

213. Kinetic Theory of Matter. (3) II. M W F, 9. HALL

Fundamental ideas and assumptions, Maxwell's law, viscosity, diffusion, heat conductivity. Relation of kinetic theory to thermodynamics.

- 214A-214B. X-Ray and Crystal Structure. (2-2). Yr. DERSHEM

Experimental lectures and discussions. A study of X-rays, crystal forms, and space lattices with applications to X-ray spectroscopy. Designed especially to familiarize the student with the apparatus and experimental methods used in X-ray research.

- 215A-215B. Radiation and Atomic Structure. (2-2) Yr. M F, 8. BIEGE

Prerequisite: course 211 or its equivalent.

A discussion of recent work in the fields of electric discharge through gases, spectroscopy, X-rays, and magneto-optics bearing upon the general problem of atomic structure.

- 216A-216B. Special Advanced Study and Research. Yr. The STAFF

Research course in connection with the thesis for the degree of Doctor of Philosophy.

- 218A-218B. Graduate Laboratory Work. Research. Yr. The STAFF

- 219A-219B. Graduate Seminar. Yr. The STAFF

Selected topics, varied from year to year.

220A. Seminar. Theory of Relativity. I.**WILLIAMS**

The science of kinematics based on Einstein's principles of equivalence and the resulting law of gravitation.

220B. Seminar. Quantum Theory. II.**WILLIAMS**

Planck's quantum hypothesis and its application to the statistical mechanics of radiation. Recent extensions and developments of the theory with particular reference to spectral line phenomena.

299A-299B. Thesis for the Master's Degree.**THE STAFF****300. Teachers' Course. (3) II. Tu Th S, 9.****MINOR**

A seminar designed for prospective teachers of physics.

PHYSIOLOGY

ROBERT GESELL, M.D., Professor of Physiology.
 SAMUEL S. MAXWELL, Ph.D., Associate Professor of Physiology.
 THEODORE C. BURNETT, M.D., Assistant Professor of Physiology.
 ROSALIND WULZEN, Ph.D., Instructor in Physiology.
 LILLIAN M. MOORE, Ph.D., Instructor in Physiology.
 ANITA D. LATON, A.B., Assistant in Physiology.
 ROBERT THACKWELL TROTTER, A.B., Assistant in Physiology.
 EDWARD WHITTIER BLAIR, A.B., Assistant in Physiology.
 ———, Associate in Physiology.

PREPARATION FOR THE MAJOR

Required: Zoology 1A-1B (10) or Physiology 1 (5), 2 (4), Physics 2A-2B (6), 3C-3D (4), Chemistry 1A-1B (10), 8, 9 (6).

Recommended: German, French, Physical Chemistry, Histology and Neurology.

LOWER DIVISION COURSES

1. Introductory Human Physiology. (5) I. Lect., Tu Th 8, 11; lab. Sec. 1, Tu Th, 2-5; Sec. 2, M F, 2-5. MAXWELL, WULZEN, LATON
 Prerequisite: Chemistry 1A-1B. Deposit, \$5.
2. Introductory General Physiology. (4) II. Lect., Tu Th, 10, and 1 quiz hour; lab.: Sec. 1, Tu Th, 2-4; Sec. 2, M W, 2-4. MAXWELL, LATON
 Prerequisite: Chemistry 1A, 1B. Deposit, \$5.
3. Physiology of Infancy. (2) II. Tu Th, 11. WULZEN

UPPER DIVISION COURSES

101. Principles of General and Mammalian Physiology. (5) II. GESELL, BURNETT, MOORE, BLAIR
 Lectures, demonstrations and conferences. M Tu W Th, 11, and F, 10.
 Prerequisite: Zoology 1A-1B or Physiology 1-2, Physics 2A-2B, 3A-3B, Chemistry 1A-1B, 8, 9. Recommended: German, French, Physical Chemistry, Histology, and Neurology.
102. Principles of General and Mammalian Physiology. (3 or 5) II. GESELL, BURNETT, MOORE, TROTTER
 Laboratory and conferences: M Tu W Th, 8-11; F, 8. 3 or 5 units of laboratory work may be taken along with or following Physiology 101. Prerequisite: same as for Physiology 101. A deposit of \$15 is required of academic students; after deductions for breakage or loss \$5 may be returned. For fees charged medical students see the Announcement of the Medical School.
- 103A-103B. Special Problems (credit to be arranged). Yr. The STAFF
 Prerequisite: Physiology 101 and 102.

GRADUATE COURSES

- 201A-201B. Research (credit to be arranged). Yr. The STAFF
 202A-202B. Journal Club and Seminar. (No credit). Yr. The STAFF

POLITICAL SCIENCE

DAVID P. BARROWS, Ph.D., LL.D., President of the University and Professor of Political Science.

BERNARD MOSES, Ph.D., LL.D., Professor of History and Political Science, Emeritus.

EDWARD ELLIOTT, Ph.D., Professor of International Law and Politics.

THOMAS H. REED, A.B., LL.B., Professor of Municipal Government.

EDGAR DAWSON, Ph.D., Professor of American Government.

E. M. SALT, Ph.D., Professor of Political Science.

J. R. DOUGLAS, Ph.D., Assistant Professor of American Politics and Administration and Director of the Bureau of Public Administration.

Seven teaching fellows.

PREPARATION FOR THE MAJOR

Required: Political Science 1A-1B (6) or 5 (as given in 1918-19).

Honors.—The department will recommend students for honors at graduation on the basis of 24 units of work under its control passed with first and second grades. The bulk of it must be chosen from upper division courses in political science. Each applicant's plan of studies will be considered on its merits. The programme should be prepared, as completely as possible, at the beginning of the junior year, in consultation with the member of the department designated as supervisor of honors students.

Course 199 is open, by special permission, to students seeking honors, or other qualified students. The course consists primarily of extensive reading in politics and examination of actual government. Freedom of choice and effort is encouraged. A maximum credit of 4 units a half-year is offered. In addition, candidates for honors may, and preferably should, take in their senior year Political Science 201A-201B.

The department will test from time to time the fitness of honors students to continue their candidacy.

The final test of the fitness of the candidate for honors at graduation takes the form of an oral examination in the last half of the senior year. Written work of each applicant, prepared at any time during the college course, is reviewed and the general knowledge of government, American and foreign (including local government), international relations, and political theory, is tested.

LOWER DIVISION COURSES

A knowledge of American government, equivalent to that provided by a high school course in civics, is a prerequisite to courses 1A and 1B. This will be tested by examination early in the session.

1A. Government. (3) I. M W F, 3.

REED

Book and syllabus fee, fifty cents.

The government and parties of Great Britain, her self-governing dominions, and the United States.

¹ To December 31, 1920.

1b. Government. (3) II. M W F, 3.

REED

This course is prerequisite to all upper division courses in the department. Book and syllabus fee, fifty cents.

The government and parties of Continental Europe.

UPPER DIVISION COURSES

101. Theory of the State. (2) I. M W, 2.

ELLIOTT

An introductory study of the fundamentals of politics.

102. American Political Institutions. (2) II. M W, 2.

ELLIOTT

A study of the origin and development of political institutions in the United States. Recommended for students whose major is political science and for students who intend to teach government in high schools.

108. American Government. (3) I. M W F, 10.

DOUGLAS

An examination of the formation and development of the American constitutional system; English and colonial origins; the establishment of the Constitution; development by legal interpretation and political practice.

109. Political Parties in the United States, England and France. (3) I. M W F, 3.

SAIT

Party history and organization; nominations; elections; the play of party upon executive and legislative organs.

110A. The Government of Cities. (3) I. M W F, 1.

REED

The development and present status of the governmental organization and activities of German, French, British and American cities.

110B. Municipal Administration. (3) II. M W F, 1.

REED

The principles and methods by which cities perform their functions, especially in the United States.

112. State Government. (3) II. M W F, 10.

DOUGLAS

A survey of the constitutional development and governmental organization of the American states, with special reference to California.

115. Principles of Public Administration. (2) I. Tu Th, 2. DOUGLAS

The development of public administration, especially in the United States; the organization of administrative departments, and the methods by which administrative action is reviewed and controlled.

123. Government of France. (3) II. M W F, 2.

SAIT

A survey of the working political institutions of today.

124. Government of England. (3) I. M W F, 2.

SAIT

A survey of the working political institutions of today.

125. English Government and Parties in their Development Since 1832.
(3) II. M W F, 3. SAIT

A study of the political conflicts and adjustments which have given shape to the existing constitutional system.

- 199A-199B. Honors Course. Yr.

The STAFF

351. Government in the Secondary School. (2) I. M W, 11. DAWSON

A course for prospective teachers of civics, dealing with the elementary principles of democratic government and the most generally accepted methods of teaching these principles to pupils of high school age. While the history and theory of instruction in civics will be presented, the purpose of the course is practical and it is organized to meet the growing demand for trained teachers in this field.

GRADUATE COURSES

The scope of instruction covers modern governments (including administration, state, local, and municipal government), political theories, internal politics, international relations. Candidates for the doctor's degree who offer political science as a major subject are also expected to take courses in the department of jurisprudence in the Constitutional Law of the United States and in International Law, with study of leading cases.

Candidates for the master's degree must complete a course of studies approved by the department embracing at least 18 units of graduate and upper division work, in addition to presenting an acceptable thesis (course 299). They must, furthermore, pass a final oral examination.

The University Library is equipped for the study of government and politics of the United States, of Spanish America, and of central and western Europe. Its collections are being added to, for the study of the Far East and the Pacific, as well as eastern and southeastern Europe. The Bancroft Library contains extensive materials (which are constantly being increased) for the study of the institutions and politics of Spanish North America.

- 201A. Reading Course in Political Writings. (3) I. M W, 8:30-10.

ELLIOTT

A reading course in political writings; Plato's Republic; Aristotle's Politics; Machiavelli's Prince; Hobbes' Leviathan; Locke's Essays on Government; Montesquieu's Spirit of the Laws; Rousseau's Social Contract.

- 201B. Continuation of 201A. (3) II. M W, 8:30-10.

ELLIOTT

The reaction against the doctrines of the eighteenth century, as represented by the writings of De Maistre and Burke; Godwin's Political Justice; Bentham's A Fragment on Government, and Principles of Morals and Legislation; Austin's Province of Jurisprudence; Mill's Essays on Liberty and Representative Government; the social and political doctrines of August Comte; Bagehot's Physics and Politics; exponents of scientific anarchism and of state socialism; modern writers, chosen according to preference of the class.

205A-205B. Seminar in Administration. (2-2) Yr. Tu, 4-6. **DOUGLAS**
Special studies in problems of federal, state and local administration.

208A-208B. Municipal Government. (2-2) Yr. M, 4-6. **REED**
Investigation of actual problems of municipal government with special reference to administration.

Note.—Courses 205 and 208 may be repeated without duplication of credit.

211A-211B. Seminar in Western European Politics. (2-2) Yr. W, 4-6.
SAIT

In the first semester attention will be called to the political situation in England during the years 1906-1914; in the second, to the recent phases of the socialist and syndicalist movements in European countries.

251. Instruction in Government. (2) I. Tu, 7:30-9:30 P.M. **DAWSON**
This seminar will examine the present tendencies in the teaching of government in the light of accepted principles of education, select and classify the political material which is available for practical efforts at a sounder social structure through the instruction of the youth, and attempt to formulate a programme.

299. Thesis for the Master's Degree.

The STAFF

PUBLIC HEALTH

Instruction in the subjects which form the three curricula leading the degree of Graduate in Public Health, as outlined in the Circular Information, Academic Departments, is given in the departments list below. For details regarding courses of instruction the student referred to the announcements of the departments concerned, and to the Committee on Public Health Study-Lists.

DEPARTMENTS IN BERKELEY

Agriculture (Entomology, Veterinary Science), Anatomy, Biochemistry, Civil Engineering, Economics, Home Economics, Hygiene, Pathology and Bacteriology, Physiology, and Zoology.

DEPARTMENTS OF THE MEDICAL SCHOOL IN SAN FRANCISCO

Clinical Neurology, Dermatology, Laryngology, Legal Medicine, Medicine, Ophthalmology, Orthopedic Surgery, Pediatrics, Surgery, and Urology.

COMMITTEE ON PUBLIC HEALTH STUDY-LISTS

LEGGE (chairman), FORCE, GAY, HYDE, MUSGRAVE, and Miss STEBBIN

PUBLIC SPEAKING

MARTIN C. FLAHERTY, Ph.B., Professor of Forensics.

CHARLES D. VON NEUMAYER, Associate Professor of Public Speaking and Dramatic Art.

DWIGHT E. WATKINS, M.A., Assistant Professor of Public Speaking.

GEORGE BOAS, Ph.D., Assistant Professor of Forensics.

ANNIE H. ALLEN, M.A., Associate in Public Speaking.

CAROLINE DUNCAN, Associate in Public Speaking.

LOUISE A. PATTEN, A. B., Associate in Public Speaking.

RAY VANDERVOORT, A.B., Teaching Fellow in Public Speaking.

HARRY A. MAZZERA, A.B., Teaching Fellow in Public Speaking.

GLADYS E. MURPHY, A.B., Teaching Fellow in Public Speaking.

FLORENCE E. LUTZ, Lecturer in Voice Culture.

The courses in public speaking fall into two well defined groups: (a) oral expression and dramatic art, (b) the principles of logical discourse—expository and argumentative.

(a) *Oral Expression and Dramatic Art.* In this group come such courses as those in voice culture, oral interpretation, and the elements of the art of acting. The group taken as a whole aims at effective oral expression, and proceeds upon the assumption that oral interpretation is based upon clear thinking.

(b) *Logical Discourse—Expository and Argumentative.* Under this heading are grouped the courses covering the logical and rhetorical bases of those forms of discourse that are primarily addressed to the intellect. The field covered includes study of methods of investigation, analysis, briefing, the testing of evidence, and practice in oral presentation.

Generally speaking, students may choose courses in either group, or in both, but those students who elect public speaking for their major study are required so to arrange their courses as to cover the fundamentals in both phases of the work before taking advanced studies in their special field. It is hoped that by a combination of both kinds of work a foundation may be laid which will prove valuable, not only to teachers of oral English in the high schools, but to all those who are preparing for professional careers in which the clear and orderly presentation of thought, orally, plays an important part.

PREPARATION FOR THE MAJOR

The prerequisites to courses in the upper division are Public Speaking 1A-1B, and 2A-2B. English 1A-1B will be accepted as the equivalent of Public Speaking 1A-1B.

Honors students.—Candidates for honors in public speaking must prepare a programme at the beginning of their candidacy after consultation

with a committee of the department appointed to supervise their work. No student will be advanced to the honors status who cannot satisfy the requirement for advanced standing in English. This requirement in English will be relaxed in favor of students who have taken equivalent work in Latin or in Greek.

In no case will a student be admitted to candidacy for honors in public speaking who has not completed with credit all the lower division courses which he has taken in the department. Each student so admitted will be required to undertake a certain amount of work under a designated instructor who will act as the student's adviser in matters relating to his programme.

LOWER DIVISION COURSES

1A-1B. Elements of Public Speaking. (3-3) Yr.

FLAHERTY, WATKINS, BOAS, VANDERVOORT, MAZZERA

Eight sections, M W F, 9, 10, 1, 2, 3; Tu Th S, 11. Training in fundamental processes; organization and arrangement of material; outlining; practice in the construction and delivery of type forms of speech.

2A-2B. Elements of Expression and Interpretation. (3-3) Yr.

ALLEN, DUNCAN, PATTEN

Four sections, M W F, 9, 3; Tu Th S, 8, 9.

A study of the laws governing correct voice production. The essentials of effective oral interpretation. Practice in reading and speaking.

4A-4B. Vocal Expression. (2-2) Yr.

VON NEUMAYER

Two sections, Tu Th, 9, 10.

Drill in elocution, reading, and the declamation of original addresses.

5A-5B. Principles of Argumentation. (3-3) Yr.

FLAHERTY, WATKINS, BOAS

Three sections, M W F, 10; Tu Th S, 11. Prerequisite: course 1A-1B.

The phrasing of propositions, analysis, brief-drawing, the nature and kinds of evidence, persuasion, practice in addressing audiences.

10A-10B. Dramatic Interpretation. (3-3) Yr. M, 1-3, W, 2.

VON NEUMAYER

A course adapted to the needs of beginners and designed as a systematic introduction to more advanced dramatic work. It aims to cover the elements of acting: diction, poise, reading, pantomime, character portrayal, etc. Limited to twenty.

UPPER DIVISION COURSES

105A-105B. Masterpieces of Legal and Political Argument. (2-2) Yr. Tu Th, 3. BOAS

Analysis of selected argumentative speeches and writings of such men as Hamilton, Marshall, Lincoln, Douglas, Webster, Holmes, and Wilson. Open to students who have had some training in logic, history, economics, law, or kindred subjects. Permission of the instructor must be secured.

107A-107B. Reading and Speaking. (3-3) Yr.**VON NEUMAYER, LUTZ, ALLEN**

Three sections: M W F, 8, 9; Tu Th S, 10.

Training in oral expression; a study of the fundamental principles of effective reading and speaking. Planned especially to meet the needs of candidates for the teacher's recommendation.

109A-109B. The Cultivation of the Speaking Voice. (3-3) Yr. ALLEN

Tu Th S, 8.

A scientific study of the laws governing voice production. The elimination of interference and fatigue.

110A-110B. Third-year Public Speaking. (3-3) Yr.**FLAHERTY**

W, 4-6, F, 4. Prerequisite: course 5A-5B and some preliminary training in vocal expression.

(A) Oral Argumentation and Debate. Preparation of briefs; presentation of arguments. (B) Practice in extempore speaking; the preparation of the occasional address. Open to students selected from 110A.

111A-111B. Expression and Interpretation. (3-3) Yr. LUTZ, DUNCAN

Prerequisite: 2A-2B.

Three sections: Tu Th S, 9, 10; M W F, 4.

116A-116B. Advanced Training for Students who are Preparing for Public Platform Work. (3-3) Yr. Two sections: M W F, 3, 4. LUTZ

Prerequisite: 111A-111B.

118A-118B. Art of Acting: Theory and Practice. (3-3) Yr. Two sections: M W F, 11, 3.**VON NEUMAYER**

The psychology of acting; the cultivation and development of the dramatic instinct through character portrayal. Study and presentation of selected one-act plays. Open to all students who have the permission of instructor.

GRADUATE COURSES**200A-200B. Practical Bibliography. (2-2) Yr.****FLAHERTY**

A course designed to meet the needs of prospective teachers of debating.

210A-210B. Advanced Public Speaking. (3-3) Yr.*FLAHERTY**

M W F, 4.

Open to qualified seniors and to graduates.

300A-300B. The Teaching of Public Speaking. (3-3) Yr.**ALLEN**

Tu Th, 9, and a third hour.

A study of the problems connected with the teaching of oral English in the high schools. Discussion and criticism of school-texts.

* To be given 1921-22.

SANSKRIT

ARTHUR W. RYDER, Ph.D., Associate Professor of Sanskrit.

SANSKRIT LITERATURE*Lecture Courses*

Courses 20 and 21 do not require a knowledge of any Indian language, and are open to all students except freshmen. Together, they aim to give an outline history of Sanskrit literature, but either one of them may be taken independently.

20. The Veda and the Philosophical Systems. (2) I. Tu Th, 11. RYDER

Lectures and reading. An outline of Vedic literature; the earlier forms of Brahmanism; the development of ritualism and philosophy; the revolt which found expression in Buddhism and Jainism, the struggle between Brahmanism and Buddhism, and the rise of Hinduism.

21. Classical Sanskrit Literature. (2) II. Tu Th, 11. RYDER

Lectures and reading. Outline of the great epics and of the classical literature, including drama: The Mahābhārata, the Rāmāyana; the Kāvya's (minor epics); lyric and elegaic poetry; novels and romances; fables and epigrams; the law books; rhetoric and poetics; scientific literature.

UPPER DIVISION COURSES*Language Courses***101A-101B. Elementary Sanskrit. (3-3) Yr. RYDER**

M W, 11, and a third hour.

Perry's Primer, Whitney's Grammar, Lanman's Reader. Grammar, Composition, and reading.

102A-102B. Second-Year Sanskrit. (3-3) Yr. RYDER

Rapid reading of classical texts: the fables of the Hitopadeṣa, selections from the Kathāsaritsāgara and Daṣakumāracarita.

***103A-103B. Advanced Classical Sanskrit. (3-3) Yr. RYDER**

(A) Reading of more difficult texts and study of their position in the literature: the Epigrams of Bhartrihari; the Meghadūta of Kālidāsa. (B) Introduction to the drama and to the Prākṛit languages: the Ṣakuntalū of Kālidāsa; the Mricchakatika of Cūdraka.

The reading matter of courses 102A-102B and 103A-103B may be varied in accordance with the tastes and purposes of the students.

199A-199B. Special Study. (2) Yr.**GRADUATE COURSE*****220. The Veda and the Philosophical Systems. (4) I. RYDER**

An expansion of course 20, with added reading and the preparation of a thesis.

* Not to be given, 1920-21.

SEMITIC LANGUAGES

WILLIAM POPPER, Ph.D., Associate Professor of Semitic Languages.

MARTIN A. MEYER, Ph.D., Lecturer in Semitic Languages and Literature.

Courses in French or German are recommended as preparation for major work in this department.

Language Courses

The specific courses given in any year, the hours therefor, and the authors read, will depend upon the needs of the students. All courses except elementary courses may be repeated without duplication of credit and by agreement may be counted as graduate work; all are year courses, and open to any qualified student; excepting course 107A-107B, they will be given by Mr. Popper.

Hebrew. Elementary (3A-3B, 3 hrs.); Second Year (104A 104B, 2 hrs.); Exegetical (206A-206B, 2 hrs.); Mishnaic (107A-107B, 1 hr., MEYER); Medieval (207A-207B, 2 hrs.).

Arabic. Elementary (113A-113B, 2 hrs.); Prose (214A-214B, 2 hrs.); Koran and Poetry (215A-215B, 2 hrs.).

Syriac. Elementary (111A-111B, 2 hrs.); Advanced (212A-212B, 2 hrs.).

Seminar (220A-220B, 2 hrs.).

Lecture Courses

Elective courses not requiring a knowledge of any Semitic language.

6A-6B. Biblical Archaeology. (1-1) Yr. Tu, 1. MEYER
Given alternately with Semitics 7.

*7A-7B. History of the Hebrew Religion. (1-1) Yr. Tu, 1. MEYER

8A-8B. Second Hebrew Commonwealth. (1-1) Yr. Tu, 2. MEYER
The history and literature of the Hebrews in Palestine after the return from the captivity (536 B.C.).

*9A-9B. The Diaspora. (1-1) Yr. Tu, 3. MEYER
The life and letters of the Jews after the fall of Jerusalem (70-1492 A.D.).
Given alternately with Semitics 10A-10B.

10A-10B. Modern Jewish History. (1-1) Yr. Tu, 3. MEYER

25. Mohammedanism. (2) Either half-year. Tu Th, 11. POPPER

* Not to be given, 1920-21.

SLAVIC LANGUAGES

GEORGE R. NOYES, Ph.D., Professor of Slavic Languages.

MILUTIN KRUNICH, Instructor in Serbo-Croatian and French.

ALEXANDER S. KAUN, M.A., Associate in Russian.

Equipment.—The University Library contains ample material for the advanced study of Russian literature and philology and for the comparative study of the Slavic languages. It also gives an opportunity for wide reading in Polish, Bohemian, Serbo-Croatian, and Bulgarian.

Prerequisites.—There are no definite prerequisites for upper division work in the Department of Slavic Languages: that is, any student of the upper division may at once take courses of upper division grade in the department. It is even possible for students, by electing courses 130-133, 140, 150, to take a major in the department without the study of a Slavic language. For students intending to do serious work in Slavic languages some acquaintance with Latin or Greek is of more value than the knowledge of German or of a Romanic language.

Honors-students in the Upper Division.—Candidates for honors must do 24 units of upper division work in the department, of which at least 16 must be of first grade. The 24 units must include at least 18 units of work in one Slavic language and also either course 160, course 162 or (with the approval of the department), course 199.

Higher Degrees.—Candidates for the master's degree must show a general knowledge of the history of one Slavic literature, and must make a special study of one important Slavic author or literary type. Candidates for the doctor's degree with Slavic languages as a major must do work in at least three Slavic languages, of which one must be Old Church Slavic. Aside from the thesis, a detailed knowledge of the history of one Slavic literature is required, and an acquaintance with the comparative grammar of the Slavic languages.

Summer Session.—Lecture courses on Russian literature and other Slavic subjects are at times given in the Summer Session.

University Extension.—Class work in Russian and correspondence instruction in Russian and other Slavic languages is provided by the University Extension Division. This work may be counted towards university degrees under the usual conditions and may be used as preparation for more advanced work in residence.

LOWER DIVISION COURSES

1A-1B. Elementary Russian. (3-3) Yr. M W F, 1. NOYES

Bondar, Simplified Russian Method. Boyer and Speranski, Russian Reader. Practice in conversation.

Students taking this course are advised also to elect Russian 18A and 118B.

6A-6B. Elementary Polish. (3-3) Yr. NOYES

Freese, Polish Manual. Reading of easy Polish texts.

10A-10B. Elementary Serbo-Croatian. (3-3) Yr. M W F, 1. **KRUNICH**
Petrovitch, Servian Conversation-Grammar. Reading of easy texts

14A-14B. Elementary Bohemian. (3-3) Yr. **KAUN**
Nigrin, Bohemian Grammar. Beneš, Česká čítanka.

Any one of the above four courses, with assigned readings in the history of Slavic literature, may be counted as work of the upper division, in which case students should register for 101A, 106A, 110A, etc.

18A. Elementary Russian Conversation and Reading. (2) I. **KAUN**
Tu Th, 1.

Solomonoff, First Steps in Russian. Practice in pronunciation and elementary conversation. Open only to students who are taking Russian 1A, for whom it is earnestly recommended.

ELECTIVE COURSES

These courses do not require a knowledge of any language other than English, and are open to all students except freshmen. By special arrangement with the instructor they may be taken as upper division courses. In such cases the students should register in courses 130, 131, 132, 133, 140, 150.

30. Russian Novelists and Dramatists of the Nineteenth Century. (3) I. **NOYES**
M W F, 3.

Lectures and reading. Authors: especially Tolstoy; also Pushkin, Gogol, Turgenyev, Dostoyevsky, Ostrovsky, and others.

31. Recent Russian Literature. (2) II. Tu Th, 3. **KAUN**

Lectures and reading. A study of important Russian writers later than Tolstoy: Chekhov, Korolenko, Merezhkovsky, Gorky, Andreyev, and others.

32. Polish and Bohemian Literature. (3) II. M W F, 3. **NOYES**

Lectures and reading. A brief account of the literature of Poland and Bohemia. A sketch of the history of the two countries, and of their connection with the European War, will precede the lectures on their literature.

33. The Serbian People. (2) II. Tu Th, 2. **KRUNICH**

Lectures and reading. A sketch of the history, manners and customs, and literature of the Serbian and Croatian peoples. Attention will be given to the part played by the South Slavs in the European War.

40. The Political Development of Modern Russian. (2) I. Tu Th, 10. **KAUN**

Lectures and reading. A study of political and social movement and institutions in Russia from about 1800 to the present day. Special attention will be paid to the history of Russian revolutionary movements since 1861.

50. Russian Commerce and Industry. (2) II. Tu Th, 10. KAUN
Lectures and reading. A study of economic conditions in Russia in the period just before the war, and, so far as is possible, at the present time. This course is designed to be useful to students in the College of Commerce.

UPPER DIVISION COURSES

- 102A-102B. Second-Year Russian. (3-3) Yr. M W F, 9. KAUN
Reading of selections from Turgenev, Chekhov, Lermontov, and Pushkin. Forbes, Russian Grammar. Practice in composition and conversation.
- 103A-103B. Third-Year Russian. (2-2) Yr. M F, 10. KAUN
Continuation of 102A-102B. Reading of Dostoyevsky and Andreyev, and of dramas by Gogol and Chekhov. Practice in composition and conversation.
- 104A-104B. Fourth-Year Russian. (2-2) Yr. Tu Th, 11. KAUN
Rapid reading of modern Russian prose and verse. Practice in composition and conversation.
105. Written Translation from Slavic Languages. (Maximum 3).
Either half-year. NOYES
Practice in written translation of Slavic fiction or drama, with attention to English style. This course may be taken only in connection with other upper division work in the department.
- 107A-107B. Second-Year Polish. (2-2) Yr. Tu Th, 3. NOYES
Reading of Mickiewicz. Practice in composition.
- 111A-111B. Second-Year Serbo-Croatian. (3-3) Yr. M W F, 2. KRUNICH
Reading of Serbian popular ballads and of modern short stories. Practice in composition and conversation.
- 112A-112B. Advanced Serbo-Croatian. (1-1) Yr. KRUNICH
Reading of Serbian poetry. Practice in composition and conversation.
- 117A-117B. Advanced Bohemian. (2-2) Yr. Tu Th, 1. NOYES
Reading of Bílý and Čech, Malá slovesnost; Truhlář, Výbor z literatury české (doba nová); Grim, Výbor z literatury české (doba střední). Practice in composition.
- 118B. Easy Russian Reading. (2) II. Tu Th, 1. NOYES
Reading of Chekhov, Humorous Stories; Turgenev, Mumu; and other easy texts. Practice in conversation. This course is open only to students who are taking Russian 1B, for whom it is earnestly recommended.
- 121A-121B. Russian Composition and Conversation. (1-1) Yr. W, 10. KAUN
Designed to accompany Russian 104A-104B.

HONORS-COURSES IN SLAVIC LITERATURE

160. The Life and Work of Leo Tolstoy. (5) I. M W F, 3. NOYES
Special assignments in connection with the work of course 30.
162. Polish Romanticism (5). II. M W F, 3. NOYES
Special assignments in connection with the work of course 32.
199. Honors Course. (Maximum 4) Either half-year. NOYES
Candidates for honors and graduate students will be offered opportunities for independent reading and study. Credit will not exceed four units a half-year.

GRADUATE COURSES

208. Polish. Mickiewicz and other Poets. (3-3) Yr. NOYES
Reading of Mickiewicz and other Polish poets. Practice in written translation.
224. Old Church Slavic. (3) Either half-year. NOYES
Leskien, Handbuch der altbulgarischen Sprache and Grammatik der altbulgarischen Sprache. Study of the relations of Old Church Slavic to the other Indo-European languages.
225. Historical Russian Grammar. (2) I. NOYES
Prerequisite: course 224.
Reading of Buslayev, Russkaya hrestomatiya. Study of the development of the Russian language and of its relations to the other Slavic languages.
298. Individual Work. (Maximum 4) Either half-year. NOYES
Graduate students will be offered opportunities for independent reading and study. Credit will not exceed 4 units a half-year.
299. Thesis for the Master's Degree. NOYES

SOCIAL INSTITUTIONS

FREDERICK J. TEGGART, A.B., Associate Professor of Social Institutions.

LOWER DIVISION COURSE

1A-1B. Human Geography. (3-3) Yr. Tu Th 8, 9. TEGGART

An introduction to the study of institutions, being an examination of the relations of geographical conditions to the development of western civilization.

UPPER DIVISION COURSES

101A-101B. Migrations. (2-2) Yr. Tu Th, 11. TEGGART

A study of the influence of migrations on institutions, and particularly on the development of the state and the ownership of property.

105A-105B. Special Study in the History of Institutions. (2-2) Yr. TEGGART
M W, 2.

GRADUATE COURSES

201A-201B. Method in the Study of Institutions. (2-2) Yr. TEGGART
Tu, 2-4.

A survey and critical study of the literature of institutions, with special reference to the problems of method.

202A-202B. Seminar. (2-2) Yr. Th, 2-4. TEGGART
Subject to be arranged.

These courses will be accepted for all purposes of university credit as anthropology in the Department of Anthropology, as economics in the Department of Economics, as philosophy in the Department of Philosophy, and as political science in the Department of Political Science.

SPANISH

RUDOLPH SCHEVILL, Ph.D., Professor of Spanish.

*S. GRISWOLD MORLEY, Ph.D., Associate Professor of Spanish.

CARLOS BRANSBY, M.A., Litt.D., Assistant Professor of Spanish.

ERASMO BUCETA, Doctor en Derecho, Assistant Professor of Spanish.

MALBONE W. GRAHAM, D.D., Instructor in Spanish.

BEATRICE Q. CORNISH, M.A., Associate in Spanish.

Staff of Assistants.

PREPARATION FOR THE MAJOR

Required: 16 units of lower division courses in Spanish; 6 units of some other Romanic language.

Recommended: Latin, History of Spain and Spanish Colonies; English; a modern language.

- A. Elementary Spanish. (5) I. GRAHAM in charge
Fourteen sections, M Tu W Th F, 8, 9, 10, 1, 2, 3; M Tu W Th S, 11.

Stress is laid on accurate pronunciation, Castilian being the standard, on the essentials of grammar, and on careful translation into idiomatic English of simple Spanish prose. The equivalent of the high school course in elementary Spanish. Students who complete A after having one year of Spanish in the high schools will receive 2 units in addition to their matriculation credit.

- B. Elementary Spanish. Continuation of A. (5). GRAHAM in charge
Either half-year. Six sections: M Tu W Th F, 8, 9, 1, 2.
Prerequisite: course A or two years of high school Spanish.

Further study of grammar, especially syntax. Reading of contemporary Spanish prose, plays and some verse. Conversation and composition. The equivalent of the high school course in intermediate Spanish.

- C. Intermediate Spanish. Continuation of B. (3) I. THE STAFF
Five sections: M W F, 8, 9, 1, 2; Tu Th S, 8, 9.

Prerequisite: course B or three years of high school Spanish, or its equivalent, or a special examination.

A detailed study of syntax, dictation and memorizing of prose and verse; conversation; selections from modern texts. The equivalent of the high school course in advanced Spanish. Conducted chiefly in Spanish.

- D. Intermediate Spanish. Continuation of C. (3) II. THE STAFF
Six sections: M W F, 9, 1, 2; Tu Th S, 9.

* Absent on leave, 1920-21.

- CD. Intermediate Spanish. Continuation of B. (5) II. The STAFF
 Five sections: M Tu W Th F, 9, 1, 2.
 Prerequisite: course C or four years of high school Spanish.

UPPER DIVISION COURSES

Required for the Major: 18-20 units of upper division courses, including 101A-101B, 106A-106B, 103A-103B or 105A-105B, 107A-107B, 108A-108B or 109A-109B.

A. Primarily for Juniors

- 101A-101B. Conversation and Composition. (3-3) Yr. BUCETA in charge
 Six sections: M W F, 8, 9, 1, 2; Tu Th S, 8, 9. Enrollment limited to thirty students in each section.

Prerequisite: the equivalent of 16 lower division units. Two sections reserved for commercial and technical Spanish; open only to students in the College of Commerce.

Advanced written and oral expression. Students who enter the upper division must take 101A-101B.

- 103A-103B. The Nineteenth Century. (3-3) Yr. M W F, 9. SCHEVILL

Prerequisite: course C-D, or credit for the high school course in advanced Spanish, or its equivalent, or a special examination.

An outline of Spanish literature in the nineteenth century, with lectures and reading of representative authors. Limited to thirty students, admitted only by special permission of instructor.

B. For Juniors and Seniors

- 105A-105B. The Modern Drama. (2-2) Yr. Th S, 10. —

A study of the chief plays of the most recent playwrights: Linares Rivas, Benavente, Galdós, the Quintero brothers, etc. Conducted mainly in Spanish. Limited to thirty students, admitted by special permission of the instructor.

- 106A-106B. Advanced Composition. (2-2) Yr. Tu Th, 11. BUCETA

Special course for teachers or candidates for the teacher's recommendation. Limited to fifteen students.

C. Primarily for Seniors

- 107A-107B. Survey of Spanish Literature to 1700. (2-2) Yr. SCHEVILL
 Tu Th, 9.

A study of the principal writers with selections from their most important works; lectures; reports to be made by the students on work assigned. Students are admitted only by special permission of instructor. Both 107A and 107B are required of candidates for the teacher's recommendation with Spanish as a major.

- 108A-108B. The Novel of Spain and Spanish America. (3-3). Yr.
 M W F, 2. BRANSBY

- *109A-109B. The Drama of the Golden Age. (2-2) Yr. MORLEY
 Tu Th, 8.

* Not to be given, 1920-21.

129A-129B. Special Study. (2-2) Yr.

The STAFF

For students who wish to undertake special advanced work and to learn how to use the library.

136A-136B. History and Literature. (2-2) Yr. Tu Th, 1. JORALEMON

140A-140B. A General Introduction to the History of Speech. —

For all students who specialize in languages.

GRADUATE COURSES

201A-201B. History of Spanish Poetry. (2-2) Yr.

BUCETA

203A-203B. Cervantes. (2-2) Yr. Tu Th, 5.

SCHEVILL

205A-205B. Masterpieces of the Golden Age. (2-2) Yr. F, 5. SCHEVILL

*208A-208B. The Spanish Ballad. (2-2) Yr.

MORLEY

Given in alternate years.

229A-229B. Special Advanced Study. (2-2) Yr. SCHEVILL and the STAFF

299A-299B. Thesis for the Master's Degree.

The STAFF

* Not to be given, 1920-21.

ZOOLOGY

CHARLES A. KOFOID, Ph.D., Sc.D., Professor of Zoology, and Assistant Director of the Scripps Institution for Biological Research.

WILLIAM E. RITTER, Ph.D., Professor of Zoology and Scientific Director of the Scripps Institution for Biological Research.

SAMUEL J. HOLMES, Ph.D., Professor of Zoology.

J. FRANK DANIEL, Ph.D., Professor of Zoology.

JOSEPH GRINNELL, Ph.D., Professor of Zoology and Director of the California Museum of Vertebrate Zoology.

JOSEPH A. LONG, Ph.D., Associate Professor of Embryology.

FRANKLIN P. REAGAN, Ph.D., Assistant Professor of Zoology.

CHARLES V. TAYLOR, Ph.D., Assistant Professor of Zoology.

JOHN F. KESSEL, B.S., Teaching Fellow.

SARAH ELKIN, M.S., Teaching Fellow.

AILEEN ANDREWS, A.B., Teaching Fellow.

ROBERT C. MILLER, A.B., Teaching Fellow.

HERBERT J. PACK, B.S., Teaching Fellow.

HELEN REDFIELD, A.B., Teaching Fellow.

RAYMOND M. SELLE, B.S., Teaching Fellow.

MARTHA THOMPSON, B.S., Teaching Fellow.

CLARENCE E. WALTON, A.B., Teaching Fellow.

WILLIAM F. HAMILTON, A.B., Assistant in Zoology (to Dec. 31, 1920).

TRACY I. STORER, M.S., Field Naturalist, California Museum of Vertebrate Zoology.

A deposit of \$5 is required in courses 1A, 1B, 4, 106, 107, 109, 110c, 111c, 113, 116, 117A-117B, 118A-118B. \$3 is retained as a fee and the balance after deductions for breakage may be returned.

PREPARATION FOR THE MAJOR

Required: Zoology 1A (4), 1B (5).

The courses are designed to meet the needs of various classes of students. For certain specific ends the following recommendations are made:

(1) Students who plan to specialize in zoology should complete courses 1A and 1B as early in their course as is feasible. These courses are prerequisite to upper division work, and, except as noted below, to all courses in the department. The following grouping of courses is recommended: (I) 106 or 107 or 103; (II) 110, 110c and 111, 111c; (III) 114 and 115; (IV) 112 and 113 or 116.

(2) For general students, courses 1A, 1B, 10, 103, 104, 107, 110, 110c, 111, 111c, 112, 113, 114 and 115.

(3) For students planning to study medicine, courses 1A, 1B, 4, 103, 106, 107, 110, 110c, 111, 111c, 114, 115.

(4) For non-biological students, courses 10, 104, 114, 115 and 116.

Students who plan to enter instruction or research in zoology as a profession should not only lay a broad foundation in the courses in zoology but should also include at least the fundamental courses in chemistry and physics in their course of study. Courses in bacteriology, botany, entomology, microscopic anatomy, palaeontology and physiology may be included to advantage, and a reading knowledge of French and German is essential. Research in biometrics requires a knowledge of higher mathematics (Mathematics 120) and statistical methods (Economics 140).

Honors-students in the Upper Division.—To honors-students whose major is zoology the department offers closer supervision of their work, larger facilities in material and equipment, and wider latitude in selection of subject-matter. Its purpose is to foster initiative and independent effort. Honors-students may select a member of the staff as adviser. Guidance in a selected course of reading will be afforded.

A major in zoology should include any two of the groups of courses listed under (1) above. The remainder of the 24 major units may include any upper division courses in zoology. Upper division courses in allied natural sciences will be accepted to the extent of 8 units when approved by the department.

LOWER DIVISION COURSES

1A. General Zoology. (4) I.

KOFOID, HOLMES, TAYLOR, HAMILTON, and Teaching Fellows

Lectures: Sec. 1, Tu Th, 9; Sec. 2, Tu Th, 10; laboratory: Sec. 1, M F, 1-3; Sec. 2, M F, 3-5; Sec. 3, Tu Th, 1-3; Sec. 4, Tu Th, 3-5; Sec. 5, W, 1-3, S, 8-10; Sec. 6, W, 3-5, S, 10-12; Sec. 7, Tu Th, 8-10; Sec. 8, Tu Th, 10-12; Sec. 9, M F, 8-10; Sec. 10, M W, 10-12.

An introduction to the facts and principles of animal biology with special reference to the structure, functions, and evolution of animal life. The laboratory exercises are essentially illustrative of lectures and are based on the examination of living and prepared specimens, supplemented by models and charts.

1B. General Zoology. (5) II. DANIEL, LONG, and Teaching Fellows

Lectures: Tu Th S, 11; laboratory: Sec. 1, Tu Th, 8-11; Sec. 2, Tu Th, 1-4; Sec. 3, W, 1-4, S, 8-11. Prerequisite: course 1A.

A continuation of course 1A. First half of semester: the behavior and structure of chordate types with special reference to the lower vertebrates (Daniel). Second half: the early development of animal types, especially the chick (Long).

4. Microscopical Technique. (2) II. W, 8-11, and 3 other hours.

LONG, HAMILTON

Prerequisite: course 1A and elementary chemistry.

Preparation of animal tissues for microscopical examination; use of microscope and microtome; methods of fixation, sectioning, and staining. Laboratory and reading.

10. General Biology. (3) II. HOLMES
Lectures, Tu Th, 8; conferences: Sec. 1, Th, 9; Sec. 2, F, 8; Sec. 3, F, 9; Sec. 4, S, 9.

An outline of the main facts and principles of animal biology with special reference to evolution, heredity, eugenics, and the bearing of biology upon human life. Lectures with demonstrations, conferences, assigned readings, and reports. Open without prerequisite to all students, but designed for those not specializing in zoology.

UPPER DIVISION COURSES

Courses 1A and 1B are prerequisite to courses 103, 106, 107.

Course 1A is prerequisite to courses 110, 110C, 111, 111C, 112, 113, 116.

103. Experimental Zoology. (2) I. Tu Th, 9. DANIEL
An experimental study of the fundamental properties of living substance, including its development, its growth and regeneration, and an application of the transplantation of living tissues.

104. Animal Behavior. (2) I. Tu Th, 4. HOLMES
The tropisms, instincts, and intelligence of animals, and the general evolution of the animal mind.

106. Comparative Anatomy of the Higher Vertebrates. (4) II. REAGAN
Lectures, Tu Th, 4; laboratory: Sec. 1, M F, 1-4; Sec. 2, Tu Th, 1-4.
Comparative study of organ-systems, organogeny, and structural relationships in the higher vertebrates as a basis for interpretation of the mammal. Regional dissection of a mammal, and sectional study of the foetal pig. Demonstrations of dissections of reptiles and birds. Students in Zoology 106 may take the lectures of Palaeontology 104 without the laboratory work (1 unit).

107. Cytology and Advanced Embryology. (4) I. LONG
Lectures, M W, 9; laboratory, M W, 1-4.
The structure and activities of the cell in development, in sex determination and heredity. The early development of mammals. Lectures, demonstrations, reading and reports, and laboratory work on special topics.

109. Biological Examination of Water. (1) II. F, 1-4. KOROID
The biology of waters of reservoirs and streams, with special reference to water supply and sewage disposal. A field and laboratory course dealing with the microscopic organisms of fresh water, other than bacteria, their occurrence, distribution, and control, and their relation to problems of sanitary engineering. Prescribed, in the third year of the sanitary course, College of Civil Engineering. Open to students of household science.

110. Protozoology. (2) I. M W F, 8. KOROID
Structure, life-history, and ecology of the protozoa with reference to the problems of biology; the relations of protozoa to disease in man and other animals. Reports on assigned topics. Students in public health and veterinary science with adequate biological training will also be admitted.

- 110c. Protozoology Laboratory. (2) I. M W F, 1-4.
Course 110 should be taken concurrently.

KOPFID

111. General Parasitology. (2) II.

KOPFID

Lectures: W F, 8; laboratory: Sec. 1, W, 1-4; Sec. 2, F, 1-4.

A general discussion of the relations of animals to the causation and transmission of disease, with special reference to the animal parasites of man and the domesticated animals; methods of biological prevention and control. Lectures and reports on assigned topics. Students of public health, and household, or veterinary science who have had adequate biological training will also be admitted.

- 111c. Morphology and Life History of Animal Parasites. (2) II.
W F, 1-4.

KOPFID

Course 111 should be taken concurrently.

- *112. Invertebrate Zoology. (3) I.

BRAGAN

Lectures, W, 9; laboratory, six hours.

The morphology, habitats, habits, and life-histories of the invertebrates, with special reference to local fauna, both marine and freshwater. Lectures, reading, reports, and laboratory and field work.

113. General Vertebrate Zoology. (3) II.
Th, 1-5; S, 8-11.

GRINNELL, STORER

Natural history of the birds, mammals, reptiles, amphibians and fishes; identification of species; study of habitat preferences, distribution, behavior and classification. Lectures, field, laboratory and museum work, with papers on assigned topics.

114. Heredity and Evolution. (3) I. M W F, 10.

HOLMES

A discussion of the facts of heredity; Mendel's law and its applications; the development of theories of evolution since Darwin. Lectures and reports on assigned topics.

115. Eugenics. (2) II. Tu Th, 11.

HOLMES

A consideration of topics in human heredity and eugenics. Lectures, assigned reading and reports. Prerequisite: course 114 or its equivalent.

116. Economic Vertebrate Zoology. (3) I.
Th, 1-5; S, 8-11.

GRINNELL, STORER

The relations of mammals, birds, and reptiles of California to human affairs; changes due to the settlement of the country; important useful and injurious species; methods of encouragement and control. Special emphasis on ground squirrel, pocket gopher, fur-bearing mammals, game birds and mammals. Lectures, museum and field work, and assigned papers.

- 117A-117B. Special Undergraduate Study.

The STAFF

All work supplementary to courses above. Credit to be fixed in each case.

* Not to be given, 1920-21.

118A-118B. Advanced Undergraduate Work in the Subject Matter of any of the above upper division courses, excepting Course 117A-117B.
The STAFF

119A-119B. Extra Session Work. The STAFF
Work on assigned topics carried on in Berkeley when the University is not in session, or in the field, or at the seashore under the direction of a member of the staff.

199. Honors Course for Seniors. (2) Either half-year. The STAFF
The reading of fundamental books in zoology.

GRADUATE COURSES

221A-221B. Seminar. History of Biological Thought. (1). The STAFF
W, 4-6.

224A-224B. Research. The STAFF
Original study on special topics, in the field, laboratory, and museum. The work may be carried on in the laboratories at Berkeley or at the San Diego station at any season of the year.

240. Seminar in Protozoology. (1) II. F, 4-6. KOFOLD

299. Thesis for the Master's Degree. The STAFF

*300. Teachers' Course. (1) I. M, 11. HOLMES
Aims, methods, and subject matter of zoological instruction in the schools.

* Not to be given, 1920-21.

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REGISTER—PART IV

LICK ASTRONOMICAL DEPARTMENT

DECEMBER, 1920

LICK ASTRONOMICAL DEPARTMENT

(LICK OBSERVATORY)

OFFICERS OF THE OBSERVATORY

DAVID P. BARROWS, Ph.D., LL.D., President of the University.
WILLIAM W. CAMPBELL, Sc.D., LL.D., Director and Astronomer.
RICHARD H. TUCKER, C.E., Astronomer.
ROBERT G. AITKEN, M.A., Sc.D., Astronomer.
WILLIAM H. WRIGHT, B.S., Astronomer.
JOSEPH H. MOORE, Ph.D., Associate Astronomer.
GEORGE F. PADDOCK, Ph.D., Acting Astronomer in charge of the Mills Expedition (at Santiago, Chile).
ADELAIDE M. HOBE, B.S., Assistant.
CHARLES M. HUFFER, M.A., Mills Assistant Astronomer (at Santiago, Chile).
HOLGER THIELE, M.S., Assistant Astronomer.
ROBERT TRUMPLER, Ph.D., Assistant Astronomer.
PRISCILLA FAIRFIELD, A.B., Fellow in the Lick Observatory.
EDITH E. CUMMINGS, M.A., Fellow in the Lick Observatory.
HAMILTON M. JEFFERS, A.B., Fellow in the Lick Observatory.
AMY G. MARSHALL, Secretary.

HISTORY OF THE LICK OBSERVATORY

The Observatory was founded by James Lick, by a deed of trust dated September 21, 1875. This deed devotes the sum of \$700,000 to "the purpose of purchasing land, and constructing and putting upon such land . . . a powerful telescope, superior to and more powerful than any telescope yet made; . . . and, also, a suitable observatory connected therewith." The deed further provides that "if, after the construction of said telescope and observatory, there shall remain of said \$700,000 . . . any surplus," the surplus shall be invested and that "the income thereof shall be devoted to the maintenance of said telescope and the observatory connected therewith, *and shall be made useful in promoting science*; and the said telescope and observatory are to be known as the Lick Astronomical Department of the University of California." The gift of Mr. Lick was accepted by the Regents December 7, 1875.

LOCATION

Mr. Lick had already, in August, 1875, selected Mount Hamilton, in Santa Clara County, as a site for the Observatory. Land for the site (1345.80 acres) was granted by Act of Congress in 1876. One hundred and ninety-one and forty-nine hundredths acres were granted to the University for the use of the Observatory in 1878. A tract of forty acres was added by gift of R. F. Morrow, Esq., in 1886. Three hundred and twenty acres were granted by the Legislature in 1888. A second congressional grant, comprising 599.94 acres, was added in 1892. The Regents of the University purchased forty acres additional in 1901, 240 acres in 1904, and 125.42 acres in 1908. The total area is 2902.65 acres.

BUILDINGS AND INSTRUMENTS

The Observatory consists of a *Main Building*, containing computing rooms, library (of 8000 books and 5000 pamphlets), and the domes of the 36-inch Equatorial and the 12-inch Equatorial and of *Detached Buildings*, to shelter the Crossley Reflector, the Meridian Circle, the Transit, the portable Equatorial, the Crocker and the Floyd Photographic telescopes. A fire-proof building was completed in 1909. It contains vaults for the storage of astronomical negatives, observations and other records of value, and instruments temporarily not in use; together with photographic darkrooms, and photographic and spectrographic laboratories. On the grounds are dwelling-houses for the astronomers, students and employees, and shops for the workmen. The Observatory is well provided with instruments, some of which are enumerated below:

36-inch Equatorial; objective by Alvan Clark & Sons, mounting by Warner & Swasey. This instrument has also a photographic corrector of 33-inch aperture, figured by Mr. Alvan G. Clark.

3-foot Reflecting Telescope; presented to the Lick Observatory in 1895 by Edward Crossley, Esq., of Halifax, England. The large mirror of this instrument is by Sir Howard Grubb. An entirely new mounting has been constructed. The building was erected from funds subscribed by citizens of California.

12-inch Equatorial; by Alvan Clark & Sons.

6½-inch Meridian Circle; objective by Alvan Clark & Sons; mounting by Repsold.

6½-inch Equatorial; mounting by Warner & Swasey.

6½-inch Bruce Comet Seeker; objective by Brashear; mounting made at the Lick Observatory.

6-inch Crocker Photographic Telescope; objective by Willard; refigured by J. A. Brashear, who provided the mounting also.

5-inch Floyd Telescope; presented by Mrs. Peter Gopcevic (née Miss H. A. L. Floyd); interchangeable photographic and visual objective by Alvan Clark & Sons.

A *Spectroscope*, especially adapted for photography; given by Hon. D. O. Mills for use with the 36-inch Refractor.

A *Spectroscope*, especially adapted for photography with the Crossley Reflector, and two *Photometers* for use with the 36-inch and 12-inch telescopes, provided from the proceeds of a gift from the late Miss C. W. Bruce of New York City.

A *37½-inch Cassegrain Reflecting Telescope*, with modern dome and a 3-prism spectrograph, the gift of Hon. D. O. Mills, for use on an astronomical expedition to the southern hemisphere. This expedition is now at work on the summit of San Cristobal, in the northeast suburbs of Santiago, Chile.

A *Wiechert Horizontal Seismograph* and a *Wiechert Vertical Seismograph*, with break circuit clock and subsidiary apparatus, the gift of Hon. W. R. Hearst.

There are, besides, several smaller telescopes and many minor pieces of apparatus.

UNIVERSITY FELLOWSHIPS

The Regents have established in the Lick Astronomical Department three salaried fellowships. These usually permit the holders to pursue studies and undertake investigations in fulfillment of requirements for the degree of Doctor of Philosophy. It is essential that each successful applicant shall be a graduate of a college or university of high standing, and shall have decided to make astronomy or one of the related sciences the basis of a professional career. Applications should be made in writing to the Director of the Lick Observatory.

MARTIN KELLOGG FELLOWSHIP

A fellowship in the Lick Astronomical Department has been endowed by Mrs. Louise W. B. Kellogg, in memory of her husband, Martin Kellogg, deceased, whose services to the University of California as Professor and President covered nearly half a century.

The purpose of the Martin Kellogg Fellowship is to provide opportunities for advanced instruction and for research to students who have already received the degree of Doctor of Philosophy, or to members of the staffs of observatories. Preference will be given to qualified applicants who may desire to pursue formal studies or researches in the Lick Astronomical Department, or in the Lick and Berkeley Astronomical departments, and to members of the Lick Astronomical Department who

may desire to undertake work in another university or observatory; but it is possible that opportunities will arise to award this fellowship, in cases of special merit, without restrictions as to the places of residence of applicants and holders. The stipend per annum is variable in amount, and would aim to cover the necessary expenses of travel and residence. Applications, including outlines of proposed plans and estimates of necessary expenses, should be made in writing to the Director of the Lick Observatory.

SPECIAL ASSISTANTS

On the recommendation of the Director and with the approval of the President persons with experience in astronomical investigation may occasionally be received at the Lick Observatory, to act as assistants in definite researches then in progress. These assistants, serving without pay, will be assigned to such studies as will be advantageous both to the Observatory and to themselves. Opportunity for making independent researches will be available only in exceptional cases.

SPECIAL INVESTIGATORS

It occasionally occurs that eminent investigators from other institutions desire to utilize the exceptional advantages of the Lick Observatory for the solution of special problems. Opportunity for such researches will be provided in case no interference with the regular programme of work would arise therefrom.

REGULATIONS REGARDING STUDENTS AT THE LICK OBSERVATORY

At the Lick Observatory graduate instruction in astronomy is offered by the Director and the Astronomers, in connection with the investigations in which they are engaged or which may be specially assigned to the student by the Director. Graduate instruction at the Lick Observatory is restricted, as a general rule, to students qualified to be on the footing of astronomical assistants. All undergraduate instruction in astronomy and such graduate instruction as is not carried on at the Lick Observatory is conducted at Berkeley.

Applicants for admission to the Lick Observatory must first qualify as graduate students of the University. Applicants are advised to file their applications with the Recorder of the Faculties, at Berkeley, before May 1.

As many graduate students as can be furnished accommodations at Mount Hamilton, without expense to the University, may pursue astro-

nomical studies at the Lick Observatory; and in return for the accommodations they will be required to execute such computations, etc., as are assigned to them.

It is usually advantageous for students to choose their time of residence at the Lick Observatory in the period from May to December.

HIGHER DEGREES

Graduate students enrolled in the Lick Astronomical Department of the University may become candidates for the degrees of Master of Arts, Master of Science, and Doctor of Philosophy. The general conditions on which these degrees are granted are printed in the Announcement of the Graduate Division.

Candidates holding fellowships in the Lick Astronomical Department are usually required to spend one term each year in graduate work at Berkeley, the place of residence being assigned by the Director of the Lick Observatory, from a consideration of the needs of the Observatory work and of the courses of instruction available at Berkeley, after consultation with the heads of the related departments of the University. In all other cases the term of residence at Mount Hamilton and at Berkeley is determined by the proper committee for each individual candidate.

QUARTERS FOR THE STUDENTS

Comfortable quarters (partly furnished) are allotted to students at the Observatory. The cost per month for each student need not exceed \$40. Each student should bring with him the linen for his room, blankets, etc., and should also provide himself with the textbooks which are constantly needed—Young's General Astronomy, Campbell's Practical Astronomy, Bruennow's Lehrbuch der Sphaerischen Astronomie, or Chauvenet's Spherical and Practical Astronomy, Watson's Theoretical Astronomy, Oppolzer's Bahnbestimmung, Klinkerfues'-Buchholz's Theoretische Astronomie, or Bauschinger's Bahnbestimmung; standard six-, five-, and four-place logarithmic tables; Crelle's Rechentafeln, etc. All injuries to apparatus must be made good at the student's expense, and students are expected to provide the larger part of the chemicals used in their practice of photography.

Intending students will do well to communicate with the Director of the Observatory before filing their formal applications for admission with the Recorder of the Faculties. The postoffice address is Mount Hamilton, Santa Clara County, California.

ADMISSION OF VISITORS TO THE OBSERVATORY

The Observatory buildings are open to visitors during office hours every day of the year. For the present, visitors who arrive at the Observatory on *Saturday nights before 10 o'clock* in the six summer months April 1 to September 30, and *before 9 o'clock* in the six winter months October 1 to March 31 will be admitted to look through the great telescope. Whenever the work of the Observatory will admit it, the 12-inch telescope also will be placed at the disposition of visitors on *Saturday nights*.

Students of the University of California who visit Mount Hamilton are requested to make themselves known, in order that the work of the Observatory may be fully explained to them.

REGISTER—PART V

**SCRIPPS INSTITUTION FOR BIOLOGICAL
RESEARCH**

DECEMBER, 1920

THE SCRIPPS INSTITUTION FOR BIOLOGICAL RESEARCH

OFFICERS OF THE INSTITUTION

DAVID P. BARROWS, Ph.D., LL.D., President of the University.

RESIDENT OFFICERS

WILLIAM E. RITTER, Ph.D., Scientific Director and Professor of Zoology.

W. C. CRANDALL, A.B., Business Agent.

F. B. SUMNER, Ph.D., Associate Professor of Biology.

GEORGE F. MCEWEN, Ph.D., Assistant Professor, Oceanographer, and
Curator of the Oceanographic Museum.

W. E. ALLEN, M. A., Biologist and Publicity Secretary.

CHRISTINE E. ESSENBERG, Ph.D., Zoologist and Librarian.

P. S. BARNHART, M.S., Curator of Aquarium and Collector.

N. W. CUMMINGS, M.S., Assistant in Oceanography.

R. R. HUESTIS, B.S.A., Assistant in Zoology.

E. G. MOBERG, M.S., Fellow in Zoology.

NON-RESIDENT OFFICERS

C. A. KOFOID, Ph.D., Sc.D., Assistant Director of the Scripps Institution for Biological Research, Professor of Zoology, University of California, Berkeley.

C. O. ESTERLY, Ph.D., Zoologist, Professor of Zoology, Occidental College, Los Angeles, California.

HISTORY, SUPPORT, AND MANAGEMENT

The institution grew out of the efforts in the Department of Zoology at the University to promote researches on the animal life of the Pacific Ocean. Since 1901 these efforts have been continuous, more or less definitely organized, and specifically supported financially. During the first years the financial support came in small sums from numerous persons interested in the work, alumni of the University, and to a slight extent the University itself. The interest of Miss E. B. Scripps and Mr. E. W. Scripps in the undertaking began in 1903, when the itinerant equipment was moved from San Pedro to San Diego. At present all the funds for physical upbuilding and a considerable part of those for maintenance

come from this source, though since 1912 the State of California has contributed liberally to the support of the scientific work.

For several years the enterprise was carried on as the Marine Biological Station of San Diego, a corporation which had no official connection with the University of California, though such a relation was looked forward to and provided for in the articles of incorporation. In accordance with this provision, the property and management were transferred to the Regents of the University in 1912, the name of the foundation being then changed to that by which it is now known. The institution is, consequently, an integral part of the University of California.

LOCATION

The institution occupies a 177-acre "pueblo lot" situated on the ocean front about sixteen miles north of the center of San Diego City and two miles north of the suburb of La Jolla. Both suburb and institution are within the corporate limits of the city.

Although this site on the open ocean, considerably isolated from human habitation and transportation facilities, has introduced rather difficult and expensive elements into the problems of development, the great and unique advantages of the location for researches on the life of the open sea and on the sea itself, which researches have a central place in the institution's scientific program, and the further advantages of ample grounds on which to build, are fully justifying and, it is confidently believed, will continue to justify the hazards that have been taken.

HOUSING AND EQUIPMENT

A fire-proof research laboratory capable of accommodating about twenty-five investigators. All the laboratory rooms, seven in number, on the first floor, are provided with salt water aquaria, thus furnishing large facilities for indoor experimentation on marine organisms. The circulatory system is of lead and hard rubber. The aquaria are of concrete and plate glass.

A fire-proof library-museum building. The first floor is devoted to the natural history and oceanographic exhibits and administration offices. The library, and the reading room used also as an essembly room, are on the second floor. The stack room now in use has a capacity of about 25,000 volumes. The old and new buildings are forty feet apart, but are connected through the second floors by a closed-in passageway.

A wharf, the piles and beams of concrete, the decking of wood, 1000 feet long and 20 feet wide. At the seaward end are placed the pump for the salt-water system, a naturalist's house, various pieces of scientific

apparatus for observations in oceanography and marine biology, and other aids to scientific work.

A concrete storage and settling tank, capacity 40,000 gallons, at the base of the sea cliff under the wharf. The sea water for the aquaria is pumped directly into this and from this into an *elevated delivery tank*, also of concrete, capacity 20,000 gallons. The tank house under this contains two rooms, used mostly for the storage of zoological material.

A public aquarium building of wood, containing nineteen concrete tanks with plate-glass fronts.

A mousehouse or "murarium" of wood, but entirely isolated and specially constructed, with living quarters for about 1000 mice. This is for the cages of mice the individual pedigrees of which are kept for experimental purposes.

A mouse yard, a small area of native earth enclosed by concrete walls and wire screening. The purpose of this is to give captive mice of local and foreign species as nearly natural conditions as possible.

The last two mentioned structures are used by Dr. Sumner in his extensive experiments on environmental influence and heredity.

A commons, with kitchen and dining-room capacity-for about forty persons, with a half-basement containing a number of bathrooms and a laundry.

Twenty-seven cottages, homes for members of the biological colony.

Garages, service houses, etc.

THE LIBRARY

The library, which has been moved into its permanent quarters on the second floor of the new building, contains over 7400 bound volumes and some 8000 pamphlets and unbound journals. The entire collection is well catalogued and available for use.

BOATS AND WORK AT SEA

The *Alexander Agassiz*, the institution's largest boat, having been found unsuitable for the marine exploration work now being carried on, has been sold. Although the funds realized from the sale are to be used in securing another boat, while the present unfavorable condition of the boat building industry lasts, boats are being hired from time to time for the heavier work. A small high-power boat, the *Ellen Browning*, with speed capacity of thirty miles an hour, furnished to the institution by E. W. Scripps, was commandeered by the United States Navy during the war. At present the *Kemah*, Mr. E. W. Scripps' private yacht, is available part of the time for the Institution's work at sea.

VISITING INVESTIGATORS

The increased facilities, both for scientific work and for living, which the later developments have furnished, are making it possible for the institution to hold out more encouragement to visiting naturalists than it has hitherto been in position to do. For certain types of biological problems, the natural conditions, equipment, and policies of the institution are exceptional. Every general zoologist knows something of the defectiveness of our knowledge of many, indeed most, questions pertaining to the lives of animals of the "high seas." Again, the institution's undertakings in oceanography, though subordinate to its biological investigations, are yet opening up alluring vistas of inquiry, some of which, particularly on the physical side of the science, may be pursued to excellent advantage at the institution.

From the standpoint of the general progress of science in America, it seems desirable that the opportunities being here developed for researches in these backward departments of science should be utilized by a larger number of investigators than it is possible for the institution with its limited means to maintain on its paid staff.

GRADUATE STUDENTS AND HIGHER DEGREES

The policy so long maintained in a somewhat tentative way of accepting a few research students who are fitted to participate advantageously in investigations being carried on by members of the regular staff can now, because of the enlarged facilities of the institution, be made more positive. Work on this basis is possible in several aspects of oceanography, the pelagic life of the sea, systematic zoology, growth of organisms, environmental influence and heredity, the technique of biological observation and thought, and possibly laboratory experimentation on the behavior of pelagic animals. No fees are charged students working on this basis, the assumption being that the work done by the student will materially aid in carrying on the institution's research program. Experience is proving that very profitable and pleasant arrangements of this sort can be entered into.

Graduate students regularly enrolled in the University of California for work at the Scripps Institution may become candidates for the degrees of Master of Science and Doctor of Philosophy in accordance with the general rules for such candidacy in other departments of the University in which higher degree work is done. Residence at La Jolla may be credited toward a higher degree as residence at Berkeley, but candidates

for degrees at the Scripps Institution usually find it necessary to do some work in one or more departments at Berkeley.

Investigators and graduate students who contemplate work at the institution should correspond with the Director before deciding to come to La Jolla. Plans for study should be set forth quite fully. It is the wish of the management to have the facilities of the institution used to the very best advantage; and undoubtedly this is possible only when due consideration is given to the question of how well the visitors' needs fall in with the natural conditions of the region and the general work and facilities of the institution.

REGISTER—PART VI

INTERSESSION

MAY 10 TO JUNE 19, 1920

SUMMER SESSIONS

BERKELEY

LOS ANGELES

JUNE 21 TO JULY 31, 1920

University of California Bulletin

THIRD SERIES. Vol. XIII, No. 8

INTERSESSION

May 10 to June 19

AND

SUMMER SESSION

June 21 to July 31, 1920

**UNIVERSITY OF CALIFORNIA PRESS
BERKELEY**

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SUMMER SESSION, 1920

June 21 to July 31

Sessions of 1920.

The annual Summer Session of the University of California will begin Monday, June 21, 1920, and will continue until Saturday, July 31, the session covering six weeks. During the same period the University will conduct a Summer Session in Los Angeles. A special bulletin describes the courses offered.

In 1920 the Summer Sessions will be preceded, in Berkeley, by an Inter-session covering the period of six weeks from May 10 to June 19.

Earlier Sessions.

The University of California held its first regular Summer Session in 1900, though summer courses in several departments had been given during the years 1891-99. In the summer of 1919 the total enrollment, not including the Summer School of Surveying, was 3312. Sixteen hundred and sixty-seven were teachers; of these 1138 came from California, 502 from other states, 27 from foreign countries. In the Summer Session in Los Angeles, the enrollment was 906.

Purpose of the Sessions.

The courses in the Summer Session are designed to meet the needs of the following persons:

1. Teachers who wish to increase their professional skill, to revise and extend their knowledge of a chosen field, or to qualify in new subjects, preparing to meet the special demand for instruction in Americanization, commercial subjects, biology, physics, chemistry, general science, physical education, manual arts, and vocational agriculture. (With state and federal aid, under the Smith-Hughes Act, special Summer Session courses are offered at the University Farm, Davis, for those preparing to teach vocational agriculture and the supplemental vocational subjects in California high schools.)

Teachers who desire to be prepared for service in vocational schools and classes maintained under the provisions of the State and Federal Vocational Education Acts, and the recent State Compulsory Part-Time Education Act, which becomes effective with the beginning of the school year 1920. The courses designed primarily for this purpose are listed on page 140 of this bulletin.

2. School superintendents, supervisors, and other officers. Supervisors of agricultural education, drawing and art, commercial subjects, music, physical education, and home economics will find work especially suited to their needs.

3. Graduate students, to whom the advantages of smaller classes and the more direct and intimate personal contact with the professors in charge are peculiarly possible during the Summer Session.

4. Undergraduate students, and especially those registered in the fall or spring sessions of the University, may use a portion of the vacation to take up studies for which they are unable to find room in their regular programmes, or to make up deficiencies, or to shorten their courses.

5. Properly recommended high-school graduates who are about to enter upon regular university courses and who desire to broaden their preparation for university work. To meet their needs courses are offered in chemistry, commerce, drawing, French, German, graphic art, Greek, home economics, Italian, mathematics, physics, and Spanish.

6. Housewives, graduate nurses, social workers, Americanization workers, students of public health, and all adults who are qualified to pursue with profit any course given, whether or not they are engaged in teaching or study.

The courses in the Intersession are designed primarily to meet the needs of students attending, or about to attend, the courses of the fall or spring sessions.

1. Lower Division students will find opportunity to enroll in a number of courses prerequisite to advanced study from which they were excluded in the present year because of the over-crowding of the University.

2. Upper Division students in the larger departments will find opportunity to continue their work in smaller classes.

3. Graduate students will find opportunity to enroll in major Upper Division Courses and in seminars which are to be continued during the Summer Session.

In general, by combining the Intersession and the Summer Session, it will be possible for students to obtain, in a single summer, credit for one semester's residence and for twelve units of work, thus reducing by six months the time required for completion of work for a degree. Between the closing of the Summer Session and the opening of the fall semester there remains an interval of two weeks for vacation purposes.

Faculty.

The faculty of the Summer Session will include not only members of the regular faculties of the University but also a number of men of letters and science from Eastern universities.

The faculty of the Intersession will consist almost wholly of members of the regular faculties of the University.

Applications for Admission.

All persons who desire to attend any of the courses of the Summer Session are urgently requested to notify the Recorder of the Faculties on or before Wednesday, June 2, using the blank form of application at the end of this bulletin.

All persons who desire to attend any of the Intersession courses are urgently requested to notify the Recorder of the Faculties on or before Wednesday, April 21, using the blank form of application at the end of this bulletin.

Compliance with this request will facilitate the making of adequate arrangements by the University, and will make possible prompt communication with prospective students in case of change in the programme.

Admission Requirements.

Attendants upon the exercises of the Summer Session and Intersession are divided into two broad classes:

A. *Auditors*.—Any adult of good moral character is permitted to attend all the regular exercises of either of the sessions, as an auditor, upon the filing of an application and the payment of the regular tuition fee of twenty dollars. This may be done by mail. An auditor does not participate in recitations, does not take examinations, and does not receive formal credit on the books of the University either for attendance or for any study or investigation which he may undertake.

B. *Students*.—While there are no formal admission requirements and no entrance examinations, the officers in charge of admissions will keep in mind the fact that the instruction offered is such as is suitable for students of university grade, and these officers will exercise their discretion in admitting to student privileges only those applicants who appear to possess the requisite maturity, training, and intelligence. Furthermore, the instructor in charge of a given course may himself require of those who present themselves as students in this course any preliminary test, formal or informal, which he may deem essential to the work proposed.

The University will not, as a rule, admit to the Summer Session or Intersession pupils from the high schools who have not yet completed the four-year high school course. Where an exception is made to this general rule, the pupil will be required to devote himself to courses given primarily or exclusively for matriculation credit, such as the "A" or "B" courses in chemistry, physics, mathematics, drawing, and the languages. And in every such exceptional case the applicant will be required to procure from the principal of his school, and to present at the University, a special testimonial, as evidence of superior scholarship and of unusual fitness for the work proposed. A blank form of testimonial for

the principal's use may be obtained from the Recorder of the Faculties. Only by special arrangement made in advance may Summer Session or Intersession courses other than the "lettered courses" be applied toward matriculation.

Registration Dates.

The office of the Recorder of the Faculties will be open for the registration of Summer Session students Saturday, June 19, and Monday, June 21; and for the registration of Intersession students Saturday, May 8, and Monday, May 10. For detailed directions as to entrance see later pages in this bulletin.

With the approval of the Dean, teachers whose regular employment makes it impossible for them to register in the Intersession or the Summer Session on the first day (Monday) may register as late as the second Monday; but such students may enroll in the courses desired only when in the opinion of the instructor, they have satisfactorily covered the ground of the first week's work.

Fees.

The tuition fee, regardless of the number of courses taken, will be twenty dollars (\$20) for the Summer Session and twenty dollars (\$20) for the Intersession; forty dollars (\$40) for both. Laboratory fees will be charged in courses in agriculture, botany, chemistry, civil engineering, home economics, mechanical engineering, office practice, physics, public health, and zoology. The fees in each case are stated in the description of the course.

Persons who desire to attend courses or occasional lectures without examination or formal credit may secure for this purpose an auditor's ticket upon payment of the regular fee,—\$20 for the Summer Session or \$20 for the Intersession. Such tickets are obtainable by mail, upon forwarding the fee, together with the usual form of application (see last page herein). Address the Recorder of the Faculties of the University of California, Berkeley, California.

All fees must be paid in advance, at the opening of the Summer Session or of the Intersession, at the office of the Comptroller, in California Hall. No deduction will be made from fees in cases of late registration. After the first week no rebate will be allowed for early withdrawal. *No application for refund will be considered unless it is made at the time of withdrawal.*

Special Summer Session scholarships, equivalent in value to the Summer Session fee, will be granted by the California State Board of Education to prospective or to qualified teachers of vocational agriculture in California high schools. Such scholarships are good only for the

special teacher-training courses at the University Farm. Application for scholarships should be made in advance to the State Supervisor of Agricultural Education, State Department of Education, Sacramento, California.

Classification and Numbering of Courses.

CLASSIFICATION.

I. Undergraduate Courses.

1. Lower Division courses.
2. Upper Division major courses.

A major course is an upper division course of advanced work in a department of study that has been pursued in the lower division, or of elementary work in a subject of such difficulty as to require the maturity of upper division students. All major courses are definitely announced as such, and are given numbers 100-199, as explained below.

II. Graduate Courses.

NUMBERING.

Undergraduate courses are designated either by letters, without numbers, or by numbers. The "lettered courses," e.g., Mathematics A, French A, are equivalents, or nearly so, of subjects in the University preparatory list; they represent subjects of study which may be pursued either in the high school or the University. All other undergraduate courses, excepting only the major courses, are numbered from 1 to 99 inclusive.

All Summer Session and Intersession courses, graduate or undergraduate, which are identical, or nearly so, with courses given during the fall or spring sessions, are distinguished by the letter "S" prefixed to the regular number of the course.

Undergraduate major courses are numbered from 100 to 199 inclusive.

Graduate courses are numbered from 200 to 299 inclusive.

Teachers' courses are numbered 300, 301, etc. Such courses may be classified either as upper division major courses or as graduate courses; however, if offered for the master's degree such courses are rated as upper division major courses, not as graduate courses.

In each department where Intersession courses are given they are listed separately from the Summer Session courses.

Credit.

Credit toward a university degree will be given only to attendants who are qualified to do systematic university work, and is in every case subject to the requirement that the student shall at some time qualify

in the University as a regular matriculant, either by passing the entrance examination or otherwise. In the absence of formal entrance requirements, the instructor in charge of a given course in the Summer Session or Intersession is the judge of the qualifications of candidates for credit.

In general, credit will be given at the rate of one unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of two units. Credit may be given, in due proportion, for a smaller number of exercises, when these are of more than the usual length (which for lectures and recitations is about fifty minutes). A recitation or lecture presupposes about two hours of study outside of the classroom; laboratory or other exercises which do not require outside preparation are estimated at a lower rate than recitations or lectures.

If in a given course a final examination is required by the instructor, there can be no individual exemption from this examination. A student who fails to pass the examination does not receive credit for the course. It should furthermore be noticed that special examinations and reexaminations in the summer courses are not provided.

The maximum amount of credit obtainable during the Summer Session, by a student who devotes his whole time to courses strictly of university grade is from four to six units, according to the character of the work selected. A similar amount of credit is obtainable during the Intersession. A bachelor's degree represents 124 or more units of credit, distributed according to the special requirements of the college or department in which the student is enrolled. For the master's degree there are required twenty units, including a thesis, which may count from two to four units. The courses must be graduate courses or undergraduate major courses. At least eight of the twenty units, including the thesis, must be strictly graduate work in the major subject. The work for Ph.D. and other doctor's degrees is not estimated in units of credit, and must be specially planned for every candidate. There are normally required four years of university residence for a bachelor's degree, one year for a master's degree, and at least two years for a doctor's degree; and while advanced credit is given for work done at other universities, the candidate's final year of residence for any degree must be spent in the University of California.

Two Summer Sessions or one Summer Session and one Intersession are accepted as the equivalent of one half-year of residence for any degree; but the amount of credit (the number of units) that may be completed during two Summer Sessions or one Summer Session and one Intersession will not exceed three-fourths of the amount that could be completed during a single fall or spring session.

In every case students desiring credit for major or graduate courses should make definite arrangements therefor with the instructor at the beginning of the session. The specific courses which will be recognized as major or graduate courses toward a higher degree are announced in later pages of this bulletin. Students electing work in the Summer Session or Intersession as part of a programme for a higher degree should consult the Announcement of the Graduate Division for information regarding facilities and departmental requirements. Graduate students should consult, also, the Dean of the Graduate Division, at his office in 209 California Hall, second floor.

The University issues formal Recommendations for Teachers' Certificates only to those who hold a bachelor's degree. Certificates of record for Summer Session or Intersession work, whether of matriculation or of university grade, will be issued by the Recorder of the Faculties, upon application of any student in the session; and personal recommendations from instructors may be obtained by school officers and other inquirers through the office of the Appointment Secretary.

There will be no general period of final examinations. The matter of examinations for credit will be left in the hands of the instructors, who may use the regular recitation hours for that purpose, or may hold examinations at other times, to be arranged with their classes. No examination is to be held except at a time which will make it possible for all the members of the class to attend without conflict with other University appointments; special examinations to suit the convenience of individuals are not permitted.

Students who apply for credit in any course will be expected not only to complete all the work and examinations of the course but also to continue in regular attendance upon the class exercises until the *close of the session*; and students will be required to hand in all their work by that time, in order that the instructor may make his report in due season. Students are not authorized to continue any part of the work beyond the close of the session. No provision is made for reëxamination or supplementary work for the removal of deficiencies.

Accommodations and Expenses.

There are no dormitories on the campus, but there are many boarding houses and private homes in Berkeley where in previous years students have obtained board and room at prices ranging from \$35 to \$50 per month. There are also several restaurants in Berkeley where meals may be had *à la carte*. A list of places offering board and room or either alone will be ready for distribution at the opening of the session at the bureau of information in California Hall. Every possible assistance will be given to strangers in their search for suitable boarding places.

The following table will enable the student to form an estimate of the expenses, exclusive of railway fare, to be met in attending the six weeks of Summer Session:

University tuition fee	\$20.00- 20.00
Laboratory fees (according to courses taken).....	00.00- 12.50
Board and room, six weeks	50.00- 80.00
Textbooks and stationery	5.00- 15.00
Laundry	5.00- 12.00
<hr/>	
Total	\$80.00-139.50

The Associated Students' Store carries all textbooks for Summer Session courses, as well as stationery and other supplies.

Railroad Rates for the Summer Session.

At the time this bulletin goes to press, no official announcement by the railroads with reference to reduced rates is yet possible. It is generally anticipated, however, that the pre-war excursion rates will be reestablished. Prospective students of the Intersession or Summer Session are urged to secure definite information at railroad offices with reference to summer rates from their respective cities.

Library.

Throughout the Summer Session the University Library will be open daily from 8 a.m. to 10 p.m., Monday to Saturday inclusive, and from 9 a.m. to 5 p.m., Sunday.

During the Intersession the Library will be open 8 a.m. to 5 p.m., Monday to Saturday inclusive.

Full library privileges, including the home use of books, as accorded to regular University students, will be extended, without additional fee, to those students in the summer courses who register at the Library.

Infirmary.

The University has a well equipped infirmary on the campus, with a full complement of physicians and trained nurses. Every student is entitled to ordinary medical and hospital care at the Infirmary without charge, it being distinctly understood that the illness to be treated arises after registration. If an operation becomes necessary a moderate charge is made, the funds received from such operations being used for the benefit of the Infirmary.

Summer Session Californian.

The *Summer Session Californian* is issued twice each week throughout the Summer Session. In addition to Summer Session news, it contains announcements of lectures, concerts, exhibits, meetings of University organizations, and information concerning the library, museums, art galleries, observatories, and other parts of the University of interest to visitors. It will be mailed to any address for the six weeks of the Summer Session for 25 cents, payable with other fees at the office of the Comptroller in California Hall.

Special Lectures.

During the session of 1919 there were numerous special lectures given both by members of the faculty and by distinguished visitors. Plans for a similar series are under way for this year's session.

Greek Theatre.

Plans are now being made for the usual concerts and dramatic productions which for several years have been notable events of the season. Tickets will be sold to Summer Session students at reduced rates. Among the entertainments in the past have been choral and orchestral concerts under the direction of Paul Steindorff, "The Toad," produced by the Forest Theatre Players of Carmel, "Shakuntala" and "Jeppe on the Hill," produced by the Mountain Players' Club, Margaret Anglin's first presentation of "Antigone," the Dance-Pageant of Ruth St. Denis and her company, the performance of Gluck's "Orpheus," and the notable performances of "Nero," "King Lear," "Matsuo," "The Talisman," and "The Rivals," by the Players' Club of San Francisco.

The season will open with a series of four grand operas, "Carmen," "Pagliacci," "La Gioconda," and "Aida," played on Friday and Saturday evenings successively for four weeks. A Tudor Folk Dance festival will be held in the latter part of July.

Chamber Music.

The faculty of the Department of Music will offer for the entertainment and instruction of the students in the Summer Session a series of concerts of admirable chamber music.

Y. M. C. A.

The University Young Men's Christian Association, now occupying the entire Association building, Stiles Hall, is both a social and recreational center for the men of the University. With new equipment and enlarged accommodations, the Y. M. C. A. is better prepared than ever

to serve the interests of the Summer Session students. Reading rooms, a social hall and recreation rooms are provided, where students can profitably spend their leisure hours. An Employment Bureau is run free of charge, exclusively for the benefit of incoming students. The Association Secretary, whose offices are located at Stiles Hall, will be glad to be of any service to students who wish aid and to help them in getting settled.

Y. W. C. A.

The Y. W. C. A. will welcome all women students attending the Summer Session in its new building on the corner of Allston way and Union street, just outside Sather Gate. The building will be open at all times to every woman student. The bulletin giving the schedule of classes, subject of weekly meeting, and office hours will be ready for distribution on registration day.

Assemblies.

As a part of the official social life of the Summer Session, there will be an informal reception with dancing in Harmon Gymnasium each Friday evening. These assemblies will be under the supervision of Mrs. Davidson, Assistant Dean of Women. All Summer Session students will be admitted to these gatherings on presentation of their registration cards.

Excursions.

The department of physical education will arrange excursions for each Saturday during the session; full announcements of these will be made later. An excursion to Mount Hamilton and the Lick Observatory will be arranged for the classes in astronomy and others who may be interested.

The student in Berkeley has within each reach the libraries, museums, parks, concerts, lectures, and theatres of San Francisco and Oakland. During the summer, when the Eastern season is over, many of the greater dramatic events of the year are to be seen in both San Francisco and Oakland.

Attendants at the Summer Session will find it easy to plan outings in the country about Berkeley, or across the bay in Marin County; boating on Lake Merritt, or on the bay; a trip to Muir Woods, a national park of redwoods; tramps in the Berkeley or Piedmont hills, to Lake Chabot, Grizzly Peak, or up Mount Tamalpais (visitors may go up either by the scenic railway or the trails); salt water bathing at the Alameda beaches or the Piedmont baths; electric car rides through Oakland to such places

as San Leandro, Hayward, and San Lorenzo; sight-seeing trips about San Francisco, including Golden Gate Park, the Cliff House, the new Chinatown, and the Presidio; week-end trips to nearby towns such as San Jose, Monterey, Santa Cruz, Santa Rosa, Napa, etc.

Conferences and Conventions.

The Pacific Division of the American Association for the Advancement of Science will hold its fourth annual meeting with other affiliated scientific societies of the Pacific Coast at the University of Washington, Seattle, Washington, from June 17 to 19 inclusive. Many of the features offered will be of interest to attendants upon the Summer Sessions. Several public addresses will be delivered by prominent scientists. The afternoon of June 17 will be devoted to a symposium on the Fisheries of the Pacific Coast. All sessions will be open to the public.

From Tuesday, July 6, to Thursday, July 8, inclusive, there will be a meeting at the University of the California High School Teachers' Association. This will be the eighth annual session held in conjunction with the University Summer Session. Students of the Summer Session are invited to attend any sessions that are of interest to them. There will be general sessions devoted to discussions of various problems of high school administration and section meetings for the consideration of important high school subjects.

The Classical Association of the Pacific States and the Astronomical Society of the Pacific will hold their annual meetings in Berkeley during the period of the Summer Session.

The national convention of the Democratic party will be held in San Francisco during the week, June 28 to July 3, 1920.

Site and Climate.

The campus of the University of California, situated on the lower slopes of the Berkeley Hills, commands a splendid view over San Francisco Bay and the Golden Gate. Its 530 acres of land include a great variety of topography. From a height of some 200 feet above the sea, the gentler slopes on which stand most of the University buildings merge into the bolder slopes of the hills, and extend to about 1300 feet elevation. Beyond the campus boundary, and reached by excellent trails, the nearby summits of the hills rise to heights of 1700 to 1900 feet above the sea. Around three sides of the campus lies Berkeley, a city of homes, with a population of about 60,000. San Francisco is thirty-five minutes ride from the campus by electric train and ferry; street cars run to the business center of Oakland in twenty-five minutes.

The climate of Berkeley is well suited for uninterrupted university work. The records of the meteorological station maintained by the Uni-

versity covering a period of thirty years, show an average temperature for June, July and August of about 60°. The highest temperature for the day averages close to 70°, while the lowest temperatures of the nights average about 53°. These favorable temperature conditions are due to the marked prevalence of light southwest winds from the ocean, which give a distinctly invigorating character to the summer weather at Berkeley. "High fogs," which are a fairly frequent accompaniment of the ocean winds, serve further to moderate the temperature. Low fogs, often associated with a coastal climate, are relatively infrequent. On rare occasions, the moist southwest wind is replaced by a dry north or northeast wind, and at such times the temperature rises, during the hottest part of the day to between 85° and 90°. Temperatures around 95° have been noted a few times during the period of record. Owing to their low humidity, these land winds are almost never oppressive. The summer at Berkeley is practically rainless, though the month of June occasionally has showers of short duration. Out-of-door activities of every sort may be planned without fear of interruption by weather. A light overcoat will be found occasionally useful, especially during the cool evenings.

THE UNIVERSITY

The University of California (founded in 1868) is by the terms of its charter an integral part of the educational system of the state. At Berkeley are the Colleges of Letters and Science, Commerce, Agriculture, Engineering, and Chemistry; the Schools of Architecture, Education, and Jurisprudence, and the instruction of the first two years in the Medical School; at Mount Hamilton is the graduate Astronomical Department, founded by James Lick; in San Francisco are the Colleges of Law, Medicine (third, fourth, and fifth years), Dentistry, and Pharmacy; in Los Angeles are the Southern Branch and the Los Angeles Medical Department; at Riverside is the Graduate School of Tropical Agriculture; at La Jolla is the Scripps Institution for Biological Research; and at Davis is the University Farm. The University's income, 1918-19, for all purposes amounted to \$4,252,110.35. The University is indebted to Mrs. Phoebe A. Hearst for permanent building plans, upon a scale appropriate and comprehensive. At Berkeley there are 385 principal officers of instruction and administration, together with assistants numbering about 500; forty-four departments of instruction; about 14,313 students in 1919-20, including the Summer Session of 1919; a library of 400,000 volumes aside from the volumes in the Bancroft collection; museums and laboratories; also the agricultural experiment grounds and station, which are invaluable adjuncts of the farming, orchard, and vineyard interests of the state. In San Francisco there are 265 officers of instruction, including demonstrators and other assistants; 617 students in 1919-20. In Los Angeles there are at the Southern Branch 102 officers of instruction and administration, 225 students in the Junior College and 1320 in the teachers' courses. Tuition in the academic departments of the University during the fall and spring sessions is free to residents of California; non-residents pay a fee of \$10 each half-year. Instruction in all of the colleges is open to all qualified persons, without distinction of sex.

LIBRARY

The General Library, housed in the building made possible by the bequest of the late Charles F. Doe, now contains more than 400,000 volumes. It is constantly augmented by donations and exchange and by large purchases of books with the income from the Michael Reese, Jane K. Sather, E. A. Denicke, Alumnus, Meyer, Carpentier, and other funds. Books are specially bought each year for the particular courses offered during the Summer Session. All Summer Session students may enjoy full privileges of the Library, including the drawing of books; and the hours of opening are the same as during the regular academic year.

The extensive Bancroft collection of manuscripts and books relating to Pacific Coast history is in process of arrangement. The major portion of the manuscripts has been calendered.

The resources of the Library are supplemented by borrowings from other libraries, and, similarly, the Library lends its books, under proper regulation, to other institutions.

Several of the departments of instruction have separately kept collections of books, useful for ready reference and classroom work.

MUSEUMS AND LABORATORIES

Psychological Laboratory. The whole of the second and third floors of the Philosophy Building and part of the basement are devoted to the psychological laboratory. Besides a full equipment for class instruction and for demonstrations in connection with lectures, as well as an extensive collection of the printed forms and other materials for use in conducting mental tests with children and adults, the laboratory is provided with a large number of special instruments for investigations in all the principal lines of psychological experiment. There is also an ample collection of such auxiliary instruments as are most frequently required in setting up special apparatus for research, and there is a shop equipped for carpenter work. In addition to the main laboratory room, there are several quiet rooms suitable for research purposes, a large dark and silent room, and a photographic dark room with full equipment. All the rooms are connected by switchboard with high and low potential electric current and are served with alternating lighting current and gas.

The equipment includes the more important psychological instruments, of late pattern, from the best makers. There is also a good collection of models, casts, and charts of the brain and the sense organs, and a full assortment of materials for demonstration and experiment.

The Physical Laboratories are located in South Hall. There are set apart rooms for elementary and for advanced work, for photometry, for spectroscopic research with a Rowland grating, for measurements in heat and in electricity, and for a workshop. The apparatus includes many instruments and standards for fundamental measurements from makers of the best reputation, and the laboratory employs two competent mechanics, who are continually increasing the equipment from original designs. It offers good facilities to students who wish to pursue the study of physics beyond the limits of the prescribed courses, whether for the sake of physics itself or in connection with other subjects, like electrical engineering, astro-physics, the practical uses of polarized light, and physical chemistry. Such students may make special arrangements for using the laboratory.

Students' Observatory (Berkeley Astronomical Department). The equipment of the observatory consists of the following instruments: an eight-inch reflector, gift of the Hon. Wm. M. Pierson, suitable for visual and photographic observations; a six-inch refractor with position micrometer; a five-inch refractor, with position micrometer, gift of Mr. and Mrs. Herman Oelrichs; a six-inch photographic telescope and a five-inch photographic telescope with a three-inch guiding telescope, all equatorially mounted with driving clocks; a three and one-half inch Bamberg prismatic transit, with transit micrometer; a three-inch Davidson combination transit-and-zenith telescope; a two-inch astronomical transit; a two-inch altazimuth instrument; surveyors' transits with solar attachment; spectroscopes; a Pickering photometer; a Repsold measuring engine for measuring astronomical photographs; a Gaertner microscope for measuring spectrograms; electro-chronographs; a Harkness spherometer; a level-trie; sextants; chronometers; a Rieffler sidereal clock; a Howard M. T. clock; all necessary electrical connections for recording time and determining longitude by the telegraphic method.

Visitors are received at the Students' Observatory on the first Saturday of each month, in the evening from 8 to 10 o'clock.

Chemical Laboratories. These laboratories are housed in a group of buildings, of which one is devoted entirely to the first-year course in chemistry. It contains ten small laboratories, each of which accommodates twenty-five students. It also contains the necessary storage, preparation, and distributing rooms.

The main chemistry building contains two large lecture rooms, laboratories devoted to instruction in organic chemistry and quantitative analysis, and a number of rooms devoted to research work.

Gilman Hall, a new, three-story, concrete building, contains the departmental library and administrative offices, and laboratories for advanced work in physical chemistry, electro-chemistry, and chemical technology. Provision is made in this building for extensive research in industrial, physical, and inorganic chemistry.

The Mineralogical and Petrographical Laboratories are provided with large collections of minerals and rocks and are equipped with the necessary apparatus for research work in crystallography, mineralogy, and petrography.

The Museum of Geology and Mineralogy comprises an extensive suite of minerals and ores illustrating the chief phenomena of crystals and of economic deposits. There are, besides, many crystallographic models, and relief maps geologically colored. There is a similarly extensive suite of petrological specimens affording a fairly good illustration of the subject of petrology, and many specimens illustrative of the more interesting features of structural geology.

The Rudolph Spreckels Physiological Laboratory. There are laboratory facilities for about fifty students of physiology in the east wing of the building, and for a similar number of students of biochemistry in the west wing. The central part of the building is chiefly devoted to advanced instruction and research. The department library contains complete sets of all the important physiological journals and the more important monographs on physiological and related subjects.

Civil Engineering Laboratories. The testing laboratory is fitted with apparatus to determine the elasticity and resistance of the materials used in engineering construction and for the inspection of Portland cement, road oil, and asphaltic products. Testing machines of large capacity are available for practical tests of beams and columns. Facilities are offered for original investigation of the physical properties of the materials of engineering. The laboratory is provided with a well equipped machine shop for shaping test specimens of metal or wood and for the manufacture of special apparatus.

The sanitary and municipal laboratories of the department afford facilities for routine and research work on problems relating to the determination of chemical, bacteriological, and physical properties of water, sewage, air, and municipal refuse. Apparatus is available for

special studies of rainfall rates and run-off in streams and sewers. Practical problems in hydraulics, water and sewage purification, municipal refuse disposal and ventilation can be studied either in the laboratories or elsewhere with the use of the laboratory equipment.

The Laboratories of Soils and Cereal Investigations are located in Budd Hall; those of horticulture, viticulture, entomology, parasitology, plant pathology, forestry and genetics are in Agriculture Hall and Hildgard Hall; while those of enology, zymology, veterinary science, insecticides, agricultural chemistry, fertilizer control, and the State Pure Food Laboratories are in adjoining structures.

OPPORTUNITIES FOR RECREATION

Harmon Gymnasium. This gymnasium, presented to the University by the late A. K. P. Harmon, is well equipped and provides all men students with opportunities for physical education. Besides the main hall, rowing room, and athletic quarters, there are one hundred and sixty-five shower baths and two thousand steel lockers for the use of the students.

The exercises in the gymnasium are conducted systematically under the supervision of the staff of instruction.

The open-air swimming pool in Strawberry Cañon affords an opportunity for water sports. This pool is 232 feet long, 76 feet wide, and 10 feet deep in the deepest parts, holds a half-million gallons of water, and by a constant flow of filtered water is kept in admirable condition.

Two new baseball diamonds and two outdoor basket-ball courts are available at the new recreation center.

Hearst Hall. Hearst Hall was presented to the University by Mrs. Phoebe A. Hearst for a women's gymnasium. The lower hall is a general gathering place for the women of the University. Connected with the gymnasium are two hundred and eighty-seven shower baths, supplied with hot and cold water, and eighteen hundred and forty lockers for the exclusive use of women students. Hearst Hall Gymnasium is 60 by 90 feet, and the gymnasium in Hearst Hall Annex is 80 by 80 feet. There is also an outdoor platform for gymnasium exercises. The athletic field is equipped for outdoor sports and team games, and there is an open-air swimming pool 45 by 75 feet.

Athletic Grounds. The tennis courts, California Field, the baseball field, and running track offer opportunity for pleasant and healthful recreation.

FACULTY OF THE SUMMER SESSION

DAVID PRESCOTT BARROWS, Ph.D., LL.D., President of the University.

WALTER MORRIS HART, Ph.D., Professor of English Philology; Dean of the Summer Sessions.

MONROE EMANUEL DEUTSCH, Ph.D., Associate Professor of Latin; Dean of the Summer Session in Los Angeles.

GUY MONTGOMERY, M.A., Instructor in English; Assistant Dean of the Summer Sessions.

JAMES SUTTON, Ph.B., Recorder of the Faculties.

MARY BLOSSOM DAVIDSON, B.L., Assistant Dean of Women, Social Director of the Summer Session.

RAYMOND B. ABBOTT, Ph.D., Instructor in Physics.

B.S., University of California, 1908; Assistant in Physics, University of California, 1909; Instructor in Physics, University of California, 1910; Ph.D., University of California, 1919.

LENA M. ABERNATHY, Assistant to Supervisor, Classes for Training Women Teachers of Trade and Industries, Oakland Center.

RICHARD L. ADAMS, M.S., Professor of Farm Management.

J. M. ALCORN, M.S., Director of Vocational Agriculture, Fullerton Union High School (Cal.).

FREDERICK ALEXANDER, A.B., Head of the Department of Music and Director of the Conservatory at Michigan State Normal College, Ypsilanti, Michigan.

A.B., University of Michigan, 1894; student in France, 1900; Conductor of Normal Choir and Senior Singing Club, Ypsilanti; Dean of Michigan Chapter of American Guild of Organists.

F. W. ALLEN, M.S., Assistant Professor of Pomology.

RUDOLPH ALTROCCHI, Ph.D., Assistant Professor of Romance Languages, University of Chicago.

A.B., Harvard University, 1908; Harvard College Fellow, 1908; A.M., Harvard University, 1909; University of Florence, Italy, 1910; Instructor in Romance Languages, Columbia University, 1911; Instructor in Romance Languages, University of Pennsylvania, 1912; Instructor in Romance Languages, Harvard University, 1912-1915; Ph.D., Harvard University, 1914; Assistant Professor of Romance Languages, University of Chicago, 1915-; Member of Committee on Public Information and Director of all Propaganda Speeches in Italy, 1918; 2nd Lieut., Infantry, Liaison Service, A. E. F., Lyon, France.

ARTHUR CARL ALVAREZ, B.S., Associate Professor of Civil Engineering and Director of the Summer School of Surveying.

CHARLES W. ANDREWS, Special Assistant in Wrestling.

ROSWELL PARKER ANGIER, M.A., Ph.D., Professor of Psychology, Director of the Psychological Laboratory; Dean of Freshmen, Yale University.

A.B. Harvard University, 1897; Teacher of German, High School, Bloomington, Ill., 1900; A.M., Harvard University, 1901; Ph.D., Harvard University, 1903; Research in Freiburg and Berlin, 1903-1906; Assistant, Physiological Laboratory, Berlin University, 1906; Instructor in Psychology, Yale University, 1906-1908; Assistant Professor in Psychological Laboratory, Yale University, 1910-; Professor of Psychology, Yale University, 1917; M.A., Yale University, 1917; Captain, San. Corps, U. S. A., Division of Aviation Tests, 1918; Dean of Freshmen, Yale University, 1920.

ALVIN K. ASTER, A.B., Assistant in Physics.

A.B., University of California, 1919.

D. T. BACHELDOR, Instructor in Animal Husbandry.

L. D. BAILIFF, Agricultural and Mechanical College of Texas.

WILLIAM H. BAIR, M.S., Instructor in Physics, University of North Dakota.

B.S., Ohio Northern University, 1908; M.S., University of Illinois, 1914; Instructor in Physics, Kansas State Agricultural College, 1914-15; Graduate Assistant in Physics and Instructor in Physics, University of California, 1915-19; Instructor in Physics, University of North Dakota, 1919-20.

MIRIAM EVELYN BARKER, M.A., Instructor in Commercial Subjects, North Side High School, Denver, Colorado.

A.B., Colorado State Teachers' College, 1916; A.M., Colorado State Teachers' College, 1918.

GEORGE ERNEST BARNETT, Ph.D., Professor of Statistics, Johns Hopkins University.

A.B., Randolph-Macon College, 1891; Ph.D., Johns Hopkins University, 1901; Instructor, Associate, and Associate Professor, Johns Hopkins University, 1901-11; Professor of Statistics, Johns Hopkins University, 1911-; Chief of Division, United States Commission on Industrial Relations, 1914-15; Investigator, Emergency Fleet Corporation, 1918.

EARL W. BARNHART, B.L., Supervisor, Commercial Training; Lecturer in Economics.

B.L., University of California, 1909; Teacher, San Diego High School, 1911-1912; Assistant Supervisor of Arithmetic, San Francisco State Normal School, 1918; Head of Commercial Department, Berkeley High School, 1918-1918; Special Agent, Federal Board for Vocational Education, 1919; in charge of Commerce, Summer Sessions, 1916, 1917, 1918, 1920; Supervisor of Commercial Training, University of California, 1919.

LOUIS BARNIER, B. ès L., A.B., Instructor in French.

B. ès L., Université de France (Montpellier and Sorbonne) 1886; A.B., University of California, 1916; Teacher of French in Leith Science College and Peebles City and County High School (Scotland), 1890-98; Head of Modern Language Department in Edinburgh Training Center for Teachers, 1898-1910; Professor of French and English in the City High School of Commerce for Girls, Zürich, Switzerland, 1910-18; Assistant and Instructor in French in University of California, 1916-.

MARGARET BEATTIE, M.A., Instructor in Public Health.

A.B., University of California, 1915; M.A., University of California, 1917; Medical Research Fellow on the Hooper Foundation, University of California, 1918; Laboratory Assistant, Medical Dept., U. S. A., B. H. 50, 1918-1919; Meaves Hospital Center, A. E. F.; Instructor in Public Health, University of California, 1919-.

H. L. BELTON, Instructor in Shop Work.

RAYMOND THAYER BIRGE, Ph.D., Instructor in Physics.

B.A., University of Wisconsin, 1909; M.A., University of Wisconsin, 1910; Instructor in Physics, Syracuse University, 1913-1918; Ph.D., University of Wisconsin, 1914; Instructor in Physics, University of California, 1918-.

CLYDE INSLEY BLANCHARD, A.B., in charge of Commercial Education, Berkeley Schools.

A.B., Baker University, 1911; Head of Office Training Department, Oregon Agricultural College, 1918-15; with the Standard Commercial School Exhibit, P. P. I. E., San Francisco, 1915; Instructor in Summer Session, University of California, 1916-18-19; Instructor in Commercial Department, Stockton High School, 1918-19; Berkeley Public Schools, 1919-.

FRANCIS HERMANN BOHLEN, LL.B., Professor of Law, University of Pennsylvania.

LL.B., University of Pennsylvania, 1892; Law Fellow, University of Pennsylvania, 1892-95; Lecturer in Law, University of Pennsylvania, 1898-1901; Assistant Professor, 1901-05; Professor of Law, University of Pennsylvania, 1905-.

JOHN SIEGFRIED BOLIN, A.M., Instructor in Education.

A.B., Stanford University, 1912; A.M., University of California, 1915; Instructor in Education, University of California, 1918-.

RICHARD ARTHUR BOLT, M.D., Gr.P.H., General Director, American Child Hygiene Association.

A.B., University of Michigan, 1904; M.D., University of Michigan, 1906; Gr.P.H., University of California, 1917; Acting Medical Director, Babies' Dispensary and Hospital, Cleveland, 1909-1910; Physician to American Indemnity College, Peking, China, 1911-1916; Chief of Bureau of Child Hygiene, Cleveland, 1917-1918; Director of Child Welfare, Red Cross Commission to Italy, 1918-1919; Captain in United States Army; Director, Alameda County Health Center and Medical Director of Schools of Oakland and Berkeley, 1919-1920; Red Cross Military Service in China, 1911-1912; medical service in Korea, 1912; Lecturer in Union Medical College, Peking, China, and Union Nurses' Training School, Peking.

CHARLES SELWYN BOTSFORD, Instructor in Physical Education.

Graduate Springfield College, 1905; Post-graduate student in Physical Education, Columbia University, 1906-1909; Instructor in Physical Education, Columbia University, 1906-1909; Director of Recreation, Michigan College of Mines, 1910; Assistant Professor of Physical Education, Reed College, 1912-1919; Instructor in Playground Activities, Summer Session, 1919; Instructor in Physical Education, University of California, 1919-.

PERCY HOLMES BOYNTON, M.A., Professor of English and Dean of the Junior Colleges, University of Chicago.

A.B., Amherst, 1897; M.A., Harvard University, 1898; Instructor in English, Smith Academy, St. Louis, 1898-1902; Assistant Professor of English, Washington University, 1903; Associate in English, 1903-05, Assistant Professor of English, 1909-14, Associate Professor of English, 1914-19, Professor of English, 1919, Dean of Colleges of Arts, Literature, and Sciences, University of Chicago, 1912-.

GERALD E. K. BRANCH, Ph.D., Assistant Professor of Chemistry.

B.S., Liverpool, England, 1911; M.S., Liverpool, 1912; Assistant in Chemistry, University of California, 1913-15; Ph.D., University of California, 1915; Instructor in Chemistry, University of California, 1915-18;; Research Chemist. British Gas Warfare Dept., 1918-19.

LILIAN B. BRIDGMAN, M.S., Lecturer in House Planning in the Summer Session.

B.S., K.S.A.C., 1886; M.S., University of California, 1898; Teacher of Science, San Diego High School, 1894-98; Teacher of Physics, California School of Mechanic Arts, 1900-1910; Assistant in Physics, University of California, 1918-1919.

ROSS J. BROWER, B.S., Instructor, University of California.

B.S., University of California, 1900; Graduate work at University of Michigan, 1906-08; Assistant in Mechanical Engineering, University of Michigan, 1906-08; Instructor in Machine Drawing, Oakland School Department, 1913-16; Instructor, Descriptive Geometry, University of California, 1915-.

AGNES E. BROWN, A.B., Librarian.

WARNER BROWN, Ph.D., Assistant Professor of Psychology.

A.B., University of California, 1904; M.A., University of California, 1905; Ph.D., Columbia University, 1908.

ALFRED DAVID BROWNE, M.D., Associate Professor of Physical Education and Medical Advisor, Stanford University.

M.D., University of North Carolina; M.D., University of Tennessee.

EDITH SIBYL BRYAN, A.B., R.N., Assistant Professor of Public Health Nursing, Medical School and Hospitals, University of California.

Graduate Nurse, Pasadena Hospital, 1910; A.B., Occidental College, 1914; private nursing, 1910. Supervisor Women's Athletic Work, Playground Department, Los Angeles, 1912-1914; Director, City Recreation Center in Settlement and Nursing, Los Angeles, 1914-1916; Secretary Red Cross Nursing Service, Los Angeles County; Secretary Educational Work, American Red Cross, 1916-1918; Assistant Professor Public Health Nursing, University of California, 1918-1920.

SIMÓN N. CÁCERES, C.E., M.L., Instructor of Spanish, San Diego High School and Junior College.

C.E., Rens. Poly. Institute, Troy, N. Y., 1898; Instructor in Spanish and Mathematics, Oregon State College, 1908-09; Assistant in Spanish, University of California, 1909-10; M.L., University of California, 1910; Instructor of Spanish, New York City Schools, 1912-16; Instructor of Spanish, San Diego High School and Junior College, 1918-.

LORAIN LYMAN CADWELL, Physical Director, Girls' Collegiate School and Berendo Intermediate High School; Director of Swimming, California College of Physical Education.

Long Beach Y. W. O. A., 1908-11; Director of Y. W. O. A. Summer Camp Activities, 1911; Director of Gymnastics and Sports, Girls' Collegiate School, 1911; Physical Director, Berendo Intermediate High School, 1914.

W. A. CAMP, A.B., Associate Professor of Rural Institutions.

JOHN BENNETT CANNING, Ph.B., Assistant Professor of Economics, Stanford University.

Ph.B., University of Chicago, 1913; Graduate Scholar in Political Economy, University of Chicago, 1914; Instructor in Political Economy, University of Chicago, 1915; Captain, 841st Infantry, U. S. A., 1917; Major of Infantry, 1918-1919; Assistant Professor of Economics, Stanford University, 1919-.

D. H. CAREY, B.S., Assistant Professor of Agricultural Engineering.

ANNA B. CARMAN, Instructor in Stenography, Julia Richman High School, New York City.

Graduate Normal School, Business College, and Gregg School; Instructor in Commercial Subjects in High Schools, 1905-20; Instructor in Summer Session, New York University, 1918; Instructor in Summer Session, University of California, 1919; Instructor in City College of New York, Spring Semester, 1918.

C. V. CASTLE, B.S., Instructor in Animal Husbandry.

WALTER MANDERSON CHRISTIE, Athletic Coach, University of California.

Track Coach, Williams College, 1894; Track Coach, Director of Gymnasium, Boxing Instructor, Columbia University, 1895; Track Coach, Baseball and Football Trainer, Princeton University, 1896-1900; Trainer of Football, Naval Academy, 1900; Baseball, Basket-ball, and Track Coach, University of California, 1901-20.

ROY E. CLAUSEN, Ph.D., Assistant Professor of Genetics.

GEORGE A. COLEMAN, M.A., Instructor in Entomology.

JOHN COLLIER, Director of Americanization and Community Institutes, University of California Extension Division; Director of Immigrant Education, State Commission of Immigration and Housing.

Student in Psychology, College de France, 1906; study of public and commercial recreation in Europe and America, with especial reference to the theatre, 1908-11; Founder, National Board of Review of Motion Pictures, 1910;

Founder, with Luther Gulick, National Community Center Association, 1915; President of National Community Center Association; Founder and Director, Training School for Community Workers, New York; former Director of Health, Community Councils of New York; Member General Board, National Child Health Organization; Advisory Member, Educational Committee of United Labor Education Committee of New York; Lecturer in Summer Sessions of University of Minnesota and University of Pittsburgh.

JULIUS L. COLLINS, B.S., Instructor in Genetics.

GEORGE E. COX, Assistant in Mechanical Engineering and Foreman of Woodwork.

WILLIAM JOHN COOPER, M.A., Superintendent of Schools, Piedmont, California.

A.B., University of California, 1906; Instructor in Latin, Stockton High School, 1907-1909; Head, History Department, Berkeley High and Intermediate Schools, 1910-1915; Head, History Department, Oakland Technical High School; Director Social Studies, Oakland High and elementary schools, 1915-1918; Business Manager, District No. 11, Committee on Education and Special Training, U. S. War Department, 1918; Lecturer in Education, Summer Session in Los Angeles, 1919.

LILLIAN A. CUMMINGS, Head, Public School Music Department, University of Southern California, Los Angeles.

Diplomas, Crane Institute, Potsdam, New York, 1907; Cornell University Summer Session, 1918; Instructor, New York University, Summer, 1915; University of California, Summer, 1919; University of Southern California, 1918-.

SEDALIA CUBBISON, Instructor in English, Chaffey Union High School (Ontario, Cal.).

JOSEPHINE G. CUNEO, M.A., Assistant in Spanish.

A.B., University of California, 1918; M.A., University of California, 1919.

RUBY L. CUNNINGHAM, M.D., M.S., Assistant Professor of Hygiene and Physician for Women.

WALTER BARRON CURRIER, A.B., Head, Fine Art and Vocational Art Departments, Lincoln High School, Los Angeles.

A.B., Cornell University, 1902; special feature artist on Springfield Republican, Industrial Arts Magazine, and School Arts, 1900-.

S. H. DADISMAN, M.S., Assistant Professor of Agricultural Education, Supervisor of Agricultural Teacher-training Center, University Farm, Davis.

STUART DAGGETT, Ph.D., Professor of Railroad Economics.

A.B., Harvard University, 1908; A.M., Harvard University, 1904; Ph.D., Harvard University, 1906; Instructor, Graduate School of Business Administration, Harvard University, 1906-1908; Assistant Professor, Associate Professor, Professor, University of California, 1908-. With War Industries Board, 1918; Professor of Railroad Economics, University of California, 1919.

JOHN FRANKLIN DANIEL, Ph.D., Professor of Zoology.

B.S., University of Chicago, 1906; Adam T. Bruce Fellow from Johns Hopkins University, Pasteur Institute, Lille, France, 1908-09; Ph.D., Johns Hopkins University, 1909; Instructor in Zoology, University of Michigan, 1910-11; Instructor, Assistant Professor, Associate Professor of Zoology, University of California, 1911-19; Professor of Zoology, 1919-.

DORIS ALDEN DANIELS, B.A., Instructor in Agriculture, University of California.

B.A., University of California, 1917; Assistant Professor of Home Economics, Washington State College, 1917-18; Instructor in Agriculture, University of California Summer Sessions, 1917-19; Instructor, Home Demonstration Agent, College of Agriculture, University of California, 1919-.

JAMES A. DAVIDSON, Instructor in Printing, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.**PIRIE DAVIDSON, M.A., Instructor in Zoology.**

B.A., University of California, 1915; M.A., University of California, 1917; Teaching Fellow, Zoology, University of California, 1915-1918; Laboratory Technician, Medical Corps, U. S. A., 1918-1919; Instructor in Zoology, University of California, 1919-.

JAIMÉ DE ANGULO, M.D., Lecturer in Anthropology in the Summer Session.

Bach. ès-let., University of Paris, 1902; M.D., Johns Hopkins, 1912.

CHARLES DERLETH, Jr., C.E., Professor of Civil Engineering and Dean of the College of Civil Engineering.**ELMER DERSHAM, Ph.D., Instructor in Physics, University of California.**

B.S., University of Kansas, 1912; M.S., University of Iowa, 1915; Assistant in Physics, University of Iowa, 1914-17; Ph.D., University of Iowa, 1917; Instructor in Astronomy, University of Illinois, 1917-19; Instructor in Physics, University of California, 1919-.

VIRGIL E. DICKSON, Ph.D., Director, Bureau of Research and Guidance for the city schools of Oakland and Berkeley.

B.P., State Normal School, Kirksville, Mo., 1904; Principal, Bay Center Elementary School, 1905-1906; A.B., State College of Washington, 1908; Superintendent of Schools, Prosser, Wash., 1908-1910; Superintendent State Normal School, Cheney, Wash., 1911-1916; M.A., Stanford University, 1917; Director of Research, Oakland Public Schools, 1917-1919; Ph.D., Stanford University, 1919; Assistant Superintendent of Schools, Berkeley, 1919.

MILTON WILLIS DOBRZENSKY, J.D., Lecturer in Commercial Law, School of Jurisprudence.

B.L., University of California, 1914; Assistant in Economics, University of California, 1913-16; Lecturer in Commercial Law, University of California, 1917-.

OLIVE WILSON DORRETT, Instructor in the Play School.

Supervisor of Music, Michigan, 1890-95; Instructor in Music, Manual Training High School, Kansas City, Missouri, 1895-98; Music Department, Ginn and Company, 1898-1901; Supervisor of Music, Kansas and Missouri, 1901-04; Instructor, Summer Session, University of California, 1918-19.

J. E. DOUGHERTY, B.S., Associate Professor of Poultry Husbandry.

JAMES ROY DOUGLAS, Ph.D., Instructor in Political Science and Secretary Bureau of Public Administration.

B.L., University of California, 1918; M.L., University of California, 1914; Fellow in Government at Harvard, 1915-1916; Instructor in Political Science, University of California, 1916-; Ph.D., University of California, 1917; War Trade Board and Food Administration, Washington, D.C.; First Lieut., General Staff, U. S. A.; Research investigator at Army War College, Washington, D. C.

COLIN VICTOR DYMENT, B.A., Professor of Journalism, University of Oregon.

B.A., University of Toronto, 1900; Professor of Journalism, University of Oregon, 1918-1917; Professor of Journalism, Head of Department, University of Washington, 1917-1918; Director of School of Journalism, University of Washington, 1918-1919; Professor of Journalism, University of Oregon, and Executive Secretary Portland Center, 1919.

ERMON DWIGHT EASTMAN, Ph.D., Instructor in Chemistry.

Ph.D., University of California, 1917.

H. L. EBY, B.S., Lecturer in Education.

STURELA EINARSSON, Ph.D., Assistant Professor of Practical Astronomy.

WALTER GOODNOW EVERETT, Ph.D., Professor of Philosophy and Natural Theology, Brown University.

A.B., Brown University, 1885; A.M., 1888; Ph.D., 1895; Instructor in Greek and Latin, Brown University, 1889-94; Associate Professor of Philosophy, Brown University, 1894-96; Associate Professor of Philosophy and Natural Theology, Brown University, 1896-99; Professor, 1899-; Acting President, Brown University, 1912-18; Brown University Trustee Butler Hospital, Providence, 1918-.

HERBERT FRANCIS EVANS, B.D., Ph.D., Professor of Religious Education, Pacific School of Religion, Berkeley.

A.B., Stanford University, 1902; B.D., University of Chicago, 1907; Ph.D., University of Chicago, 1909; Fellow, University of Chicago, 1907-1909; Correspondence Division, University of Chicago, 1909-1918; Professor of Biblical Literature and Religious Education, Grinnell College, 1914-1919; Area Director of Education and Religious Work, Y. M. C. A., A. E. F., 1918; Professor, Pacific School of Religion, 1919-. Author, "The Sunday School Building and Its Equipment" (University of Chicago Press, 1914), "Texts in Religious Education," magazine and encyclopedia articles.

VIRGIL B. EVANS, Instructor in Auto Practice, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

HELEN W. FANCHER, Instructor in Household Art.

New York Technical Schools and School of Applied Design; California School of Arts and Crafts; Instructor, University of California Summer Session, 1917; Vocational High School, 1917-1918; Instructor, University of California, 1918-1920.

PERCIVAL BRADSHAW FAY, Ph.D., Assistant Professor of French.

A.B., Haverford College, 1909; Ph.D., Johns Hopkins University, 1912; Instructor in French, University of Michigan, 1912-14; Assistant Professor of French, University of California, 1914-.

L. J. FLETCHER, B.S., Assistant Professor of Agricultural Engineering.

FRANCIS SEELEY FOOTE, Jr., E.M., Professor of Railroad Engineering.

JOHN NIVISON FORCE, Gr.P.H., Associate Professor of Epidemiology.

B.S., University of California, 1898; M.D., University of California, 1901; M.S., University of California, 1910; Lecturer in Hygiene, University of California, 1911-12; Assistant Professor of Epidemiology, University of California, 1912-18; Captain, Medical Corps, U. S. Army, detailed as Bacteriologist of the Panama Canal, 1918-19; Associate Professor of Epidemiology, University of California, 1919-.

RICHARD SLAYTON FRENCH, Ph.D., Assistant Professor of Education.

B.L., University of California, 1906; Teaching Fellow in Education, University of California, 1918-1919; Ph.D., University of California, 1919; Assistant Professor of Education, University of California, 1919-; Special Collaborator in Educational Research, U. S. Bureau of Education, 1920-.

JEANNETTE NATALIE GAY, M.A., Assistant in Bacteriology.

A.B., Mills College, 1918; M.A., University of California, 1919; Assistant in Bacteriology, Summer Session, University of California, 1917-1918; Assistant in Bacteriology, University of California, 1919-.

JAMES GEORGE, Assistant in Mechanical Engineering and Foreman of Iron-work.

GEORGE E. GIBSON, Ph.D., Assistant Professor of Chemistry.

B.S., Edinburgh, 1906; Ph.D., Breslau, 1911; Vans Dunlop Scholar, Edinburgh, 1906-08; Carnegie Research Fellow, Breslau, 1908-12; Assistant in Chemistry, Edinburgh, 1912-08; Instructor in Chemistry, University of California, 1918-17; Assistant Professor, 1918-20.

STEPHEN WARREN GILMAN, LL.B., Professor of Business Administration, University of Wisconsin.

LL.B., University of Wisconsin, 1899; Commercial Research in Europe, 1891-92; in business, organization and management of corporations in Chicago, director of railroad companies, and in legal profession (corporation practice), -1904; New York University Summer Session, 1910; Professor of Business Administration, University of California Summer Session, 1912-1915.

JOHN W. GILMORE, M.S., Professor of Agronomy.

CHARLES A. GLOVER, Instructor in Bookkeeping, High School of Commerce, San Francisco.

MOSES GOMBERG, Sc.D., Professor of Organic Chemistry, University of Michigan.

B.S., University of Michigan, 1890; Sc.D., University of Michigan, 1894; Instructor in Chemistry, University of Michigan, 1893-1899; Assistant Professor of Organic Chemistry, 1899-1902; Junior Professor, 1902-1904; Professor, 1904-1920; Summer Session, University of California, 1916; Summer Session, University of Chicago, 1917; Major, Ordnance Department, United States Army, 1918.

CARDINAL F. GOODWIN, Ph.D., Professor of American History, Mills College.

B.A., Brown University, 1905; M.A., Brown University, 1910; Ph.D., University of California, 1916.

ROBERT W. GORDON, A.B., Assistant Professor of English Composition.

FRANCES MARY GREENE, M.D., Field Supervisor in Training Course for Community Workers, Associated Charities, San Francisco.

M.D., University of California, 1889; New York Polyclinic, 1889-90; Ecole de Medicine, Paris, 1898; Celli, Rome, 1895; Berlin, Charite, 1900; Lecturer, Social Hygiene, California, 1908-10; Associated Charities, San Francisco, 1918-19.

FREDERICK L. GRIFFIN, M.S., Associate Professor of Agricultural Education.

EDWARD OSOAR HEINRICH, B.S., Consulting Expert and Examiner of Disputed Documents, Judicial Chemist, San Francisco.

B.S., University of California, 1908; Assistant in Chemical Analysis and in Physics, University of California, 1908; City Chemist, Tacoma, Washington, 1908-10; Engineer of Tests, City of Tacoma, 1911-12; Lecturer, University of California Summer Session and School for Police Officers, Berkeley, 1912, 1917; Chief of Police, Alameda, California, 1917-18; Government Expert on Documents, Hindu-Gadar Revolution Plot trials, San Francisco, jointly for the United States and British Governments; Captain, Engineer Reserve Corps, 1917.

MARY MARGARET HERETH, B.S., Instructor in Home Economics, Burbank School, Berkeley.

B.S., Columbia University, 1915; Teacher of Home Economics and Chemistry, Knox School, Tarrytown, N. Y., 1915-17; Teacher, Home Economics, Ceres High School, Ceres, California, 1917-19; Instructor in Home Economics, Burbank School, Berkeley, 1919-.

CLARK W. HETHERINGTON, A.B., State Supervisor of Physical Education, California.

A.B., Stanford University, 1895; Anthropologist and Director of Physical Training, Whittier State School, 1896-98; Professor of Physical Education and Director of Gymnasias and Athletics, University of Missouri, 1900-10; Lecturer, University of California Summer Session, 1912-15, 1916-19; Director of the Play School, University of California Summer Session, 1918-15; Professor of Physical Education in charge of Professional Training Courses in Physical Education, University of Wisconsin, 1915-18; Supervisor of Physical Education, State of California, 1917-.

DAISY ALFORD HETHERINGTON, M.A., Director of the Play School in the Summer Session.

Teacher in California elementary and high schools, 1895-1902; B.A., University of Wisconsin, 1915; M.A., University of Wisconsin, 1917; Instructor in Education, University of California Summer Session, 1917-19.

ANDREW P. HILL, Jr., Director Industrial Training, San Francisco Elementary Schools.

Instructor in Woodwork, San Jose Normal School, 1910; Head, Manual Arts Department, San Jose Normal, 1911-1918; practiced architecture, 1914-1917; Instructor in Woodwork and Mechanical Drawing, San Francisco schools, 1918-.

RICHARD THAYER HOLBROOK, Ph.D., Professor of French.

B.A., Yale, 1898; College de France, 1898-94; University of Berlin, 1894-95; Ph.D., Columbia University, 1902; Head, Department of Old French Philology, Bryn Mawr College, 1906-16; Instructor, Summer Session, University of Chicago, 1916; Romance Language Editor for D. C. Heath & Co., 1917-18; Professor of French, University of California, 1919-.

WILLIAM T. HORNE, B.S., Associate Professor of Plant Pathology.

LEORA HOUGHTON, Instructor in the Play School in the Summer Session.

CHARLES H. HUNT, A.B., Boy Scout Executive, Berkeley, California.

A.B., Benton Harbor College; President, Western District American Physical Education Association.

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W. C. HYATT, Head Commercial Department, Tamalpais Union High School.

R. C. INGRIM, Instructor in Shop Work.

CHARLES L. JACOBS, M.A., Associate Professor of Industrial Education and Supervisor of Classes for Teachers of Trade and Industrial Subjects.

SASCHA JACOBINOFF, Solo Violinist with the New York Philharmonic and Philadelphia Symphony Orchestras.

BERNARD C. JAKWAY, B.A., Lecturer in Interior Decoration.

B.A., University of Oregon, 1901.

ELIAS OLAN JAMES, A.M., Associate Professor of English, Mills College.

A.B., Stanford University, 1902; A.M., University of California, 1906; Instructor, Berkeley High School, 1907-09; Associate Professor of English, Mills College, 1909-; Instructor, University of California Summer Session, 1916-18; Instructor, University of California Extension, 1919.

MORRIS JASTROW, Jr., Ph.D., LL.D., Professor of Semitic Languages and Librarian, University of Pennsylvania.

B.A., University of Pennsylvania, 1881; Ph.D., Leipsig, 1884; LL.D., University of Pennsylvania, 1914; student of Oriental Languages in Germany and France, 1881-85; United States Delegate to International Congresses of Orientals and also to International Congresses for the History of Religion, 1890-1914; President of the American Oriental Society, 1918; President of the Society of Biblical Literature, 1914.

MARK JEFFERSON, A.M., Professor of Geography, Michigan State Normal College, Ypsilanti, Michigan.

A.B., Boston University, 1889; A.B., Harvard, 1897; A.M., Harvard, 1898; Instructor, 1898; Instructor, Harvard Summer School, 1892 and 1900; Professor of Geography, University of Michigan Summer School, 1903; Yale University Summer School, 1907; University of Chicago, 1917; Professor of Geography, Ypsilanti, 1901-20; President, Michigan Academy of Science, 1907; President, Association American Geographers, 1916.

D. O. JENKINS, M.S., Assistant in Olericulture.

HENRY JOHNSON, A.M., Professor of History, Teachers College, Columbia University.

B.L., University of Minnesota, 1889; A.M., Columbia University, 1902; Head of Department of History, Normal Schools, 1895-1906; Professor of History, Teachers College, Columbia University, 1906-.

ELIOT JONES, Ph.D., Associate Professor of Economics, Stanford University.

A.B., Vanderbilt University, 1906; A.M., Harvard University, 1908; Ph.D., Harvard University, 1913; Instructor in Economics, Harvard University, 1912-13; Instructor in Economics, University of Pennsylvania, 1918-14; Associate Professor of Economics, Iowa State University, 1914-16; Professor of Economics, University of Texas, 1916-17; Associate Professor of Economics, Stanford University, 1917-.

LLOYD T. JONES, Ph.D., Assistant Professor of Physics.

A.B., 1909, A.M., 1910, Lake Forest College, Illinois; M.S., 1913, Ph.D., 1915, University of Illinois; Assistant in Physics, Lake Forest College, 1909-10; Assistant in Physics, University of Illinois, 1910-15; Instructor in Physics, University of California, 1915-17; Captain in Air Service, 1917-18; Assistant Professor of Physics, University of California, 1918-.

WILLIAM WEBB KEMP, Ph.D., Professor of School Administration.

A.B., Stanford University, 1898; Instructor in Education, Stanford University, 1904-05; Director of the Training School, State Normal School, San Diego; Fellow in Education, Teachers College, Columbia University, 1910-12; Ph.D., Columbia University, 1912; Professor of Education, University of Montana, 1912-15; Professor of School Administration, University of California, 1915-.

JOHN L. KERCHEN, M.A., Instructor in Mathematics, Oakland Technical High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

O. J. KEHN, Assistant Professor of Agricultural Education.

ELBERT ALVIS KINCAID, A.M., Instructor in Economics.

A.B., Washington State College, 1910; A.M., Harvard, 1911; Assistant Professor of Government, Harvard, 1911-12; Assistant Professor of Economic History, Washington State College, 1918-16; Assistant in Economics, University of California, 1916-17; Instructor in Economics, University of California, 1917-.

FRANK J. KIRKER, Director of Business Training, Junior College of Kansas City.

FRANK LOUIS KLEEBERGER, M.A., Professor of Physical Education, Chairman of the Department of Physical Education for Men, and Director of Men's Gymnasium.

B.S., University of California, 1908; M.A., University of California, 1916; Director of Physical Education, University of Arizona, 1908-12; Assistant Professor, Associate Professor, and Professor, University of California, 1912-20; Acting Director of School of Reconstruction Aides, 1918; Director of Organized Sports, School of Military Aeronautics, 1918-19; Director of Physical Education, Summer Session of University of California, 1918; Physical Director, Foyer de Soldat, France, 1918; Director American Sports, "Centre Regional d'Instruction Physique, Royan, Charente Inferieur," 1919; Coach of National Championship Basket-ball Team for the French Army at the "Centre d'Instruction Physique, Jeanville d'Pont," 1919.

CHARLES ATWOOD KOFOID, Ph.D., Sc.D., Professor and Head of the Department of Zoology.

A.B., Oberlin, 1890; A.M., Harvard, 1892; Ph.D., Harvard, 1894; Sc.D., Oberlin, 1915; Instructor in Vertebrate Morphology, University of Michigan, 1894-95; Superintendent of Biological Station, University of Illinois, 1895-1900; Assistant Professor of Zoology, University of Illinois, 1897-1900; Superintendent of Natural History Survey of Illinois, 1898-1900; Assistant Professor, 1900-04, Associate Professor of Histology and Embryology, University of California, 1904-10; Professor of Zoology, University of California, 1910-; Assistant Director, Scripps Institution for Biological Research, 1912-.

WENDELL MITCHELL LATIMER, Ph.D., Instructor in Chemistry.

A.B., University of Kansas, 1915; Instructor in Chemistry, University of Kansas, 1915-16; Ph.D., University of California, 1919; Lecturer in Chemistry, University of California, 1918; Instructor in Chemistry, University of California, 1919-.

GEORGE LOUIS LAWRENCE, A.M., Head, Modern Language Department, Whitman College, Walla Walla, Washington.

A.B., Stanford University, 1918; A.M., Stanford University, 1914; Instructor, Spanish and French, San Diego High School, 1914-18; Instructor, Spanish and Portuguese, University of California Summer Sessions, 1915, 1918; U. S. Army, Selective Service Work, 1918-19; Head, Modern Language Department, Whitman College, 1919-.

KARL CLAYTON LEEBRICK, Ph.D., Assistant Professor of History.

B.S., University of California, 1911; M.S., University of California, 1918; Assistant in History, University of California, 1918-15; Ph.D., University of California, 1916; Chief Assistant in History, University of California, 1916-17; Instructor in History, 1917-18; University of Oregon Summer Session, 1919; Assistant Professor of History, University of California, 1918-.

DERRICK NORMAN LEHMER, Ph.D., Professor of Mathematics.

A.B., University of Nebraska, 1898; M.A., University of Nebraska, 1896; Ph.D., Chicago, 1900.

VICTOR FITZ LENZEN, Ph.D., Assistant in Physics.

B.S., University of California, 1913; Ph.D., Harvard University, 1916; Assistant in Philosophy, Harvard University, 1917-18; Assistant in Physics, University of California, 1918-.

CLARENCE IRVING LEWIS, Ph.D., Assistant Professor of Philosophy.

A.B., Harvard, 1906; Instructor in English, University of Colorado, 1905-08; Ph.D., Harvard 1910; Assistant in Philosophy, Harvard University and Radcliffe College, 1910-11; Instructor in Logic, University of California, 1911-14; Assistant Professor of Philosophy, University of California, 1914-.

EDWIN AUGUSTUS LEE, A.M., Professor of Vocational Education, Indiana University, Bloomington, Indiana.

B.S., Columbia University, 1914; A.M., Columbia University, 1915; Assistant Professor of Vocational Education, Carnegie Institute of Technology, Pittsburgh, 1916-17; Acting Associate Professor of Vocational Education, Indiana University, 1917-18; Professor of Vocational Education, Indiana University, 1918-.

WILLIAM E. LINGELBACH, Ph.D., Professor of Modern European History, University of Pennsylvania.

A.B., University of Toronto, Canada, 1894; Teaching Fellow, University of Toronto, 1894-95; Professor of History and Law, Michigan Military Academy, 1898-99; Ph.D., University of Pennsylvania, 1901; Instructor in Modern European History, University of Pennsylvania, 1900-08; Assistant Professor, University of Pennsylvania, 1908-08; Professor of Modern European History, University of Pennsylvania, 1908-.

W. E. LLOYD, B.S., Assistant Professor of Poultry Husbandry.

M. CATHERINE LYONS, M.O., Director of English, Expression, and Dramatic Art Departments and Vice-President Maclean College of Music, Dramatic and Speech Arts, Chicago, Ill.

Graduate of Columbia College of Expression, Chicago, 1904; Teacher of Expression and Dramatic Art, High Schools of Chicago, 1904-08; Teacher of English Literature, Maclean College of Music, Dramatic and Speech Arts, Chicago, 1908-12; Director, English, Expression, and Dramatic Arts Departments, 1912-.

FREDERIC CHARLES MCCONNELL, A.B., Assistant to the Director of the Greek Theatre.

LL.B., University of Nebraska, 1913; A.B. in Drama, Carnegie Institute of Technology, 1917; Assistant Director, Arts and Crafts Theatre, Detroit, 1917-18.

EUGENE IRVING MCCORMAC, Ph.D., Professor of American History.

B.S., Upper Iowa University, 1896; Ph.D., Yale, 1901; Instructor in History, Northwestern University, 1901-02; Instructor in History, College of the Pacific, 1902-03; Professor of American History, University of California, 1919-.

JAMES OSCAR MCKINSEY, C.P.A., A.M., Assistant Professor of Accounting, University of Chicago.

LL.B., University of Arkansas, 1913; Ph.B., University of Chicago, 1916; A.M., University of Chicago, 1919; C.P.A., State of Illinois, 1919; Instructor of Accounting, University of Chicago, 1917; Assistant Professor of Accounting, University of Chicago, 1919-.

HOWARD E. MCMINN, M.A., Professor of Botany, Mills College.

B.S., Earlham College, 1914; Teacher of Biology, Pacific College, 1914-15; M.A., University of California, 1916; Professor, Whittier College, 1917-18; Professor of Botany, Mills College, 1918-.

LYBA SHEFFIELD MACKIE, Instructor in Swimming in the Summer Session.

Director of Physical Education, San Francisco Y. W. C. A., 1915; Assistant Instructor in Swimming, San Francisco High School; Pacific Coast record holder in swimming and diving.

GEORGE BENJAMIN MANGOLD, Ph.D., Director of Missouri School of Social Economy, St. Louis, Mo.

A.B., Cornell College, Mt. Vernon, Iowa, 1901; A.M., University of Chicago, 1908; Ph.D., University of Wisconsin, 1906; Expert Special Agent in U. S. Bureau of Labor, 1907-08; Associate Director, School of Social Economy, Missouri, 1908-12; Director, School of Social Economy, Missouri, 1912-.

J. C. MARQUARDT, B.S., Assistant in Dairy Industry.

CHARLES EMANUEL MARTIN, Ph.D., Lecturer in International Law and Political Science.

B.L., University of California, 1914; M.A., 1915; Ph.D., Columbia University, 1918; University Fellow in International Law, Columbia University, 1916-17; Assistant, Bureau of Imports, War Trade Board and Food Administration, Washington, 1917-19; served in Coast Artillery Corps, Fortress Monroe, Virginia, 1918; Research Fellow, Carnegie Endowment for International Peace, Division of International Law, 1918-19.

WILLIAM FERDINAND MEYER, Ph.D., Assistant Professor of Mathematics and Astronomy.

B.S., Drake University, 1907; Assistant in Astronomy, University of California, 1908-10; Instructor in Astronomy, University of California, 1910-12; Director in charge of International Latitude Observatory, Ukiah, California, 1912-18; Ph.D., University of California, 1919.

J. D. MILLER, Instructor in Agricultural Engineering.

R. JUSTIN MILLER, LL.B., J.D., Assistant Executive Officer, Commission of Immigration and Housing of California.

A.B., Stanford University, 1911; LL.B., University of Montana, 1918; J.D., Stanford University, 1914; Teaching Assistant in Law, University of Montana, 1918-14; Instructor in English, Stanford University, 1915-19.

WILLIAM EDMUND MILNE, Ph.D., Professor of Mathematics, University of Oregon.

A.B., Whitman College, 1912; A.M., Harvard University, 1913; Instructor in Mathematics, Harvard University, 1913-15; Ph.D., Harvard University, 1915; Instructor in Mathematics, Bowdoin College, 1915-16; Assistant Professor of Mathematics, Bowdoin College, 1915-16; 1st Lieut., Ordnance Dept., U. S. A., 1918; Professor of Mathematics, University of Oregon, 1919-.

RALPH SMITH MINOR, Ph.D., Professor of Physics.

A.B., Hamilton College, 1898; A.M., Hamilton College, 1901; Ph.D., University of Gottingen; Instructor in Physics, University of California, 1903-06; Associate Professor, of Physics, University of Nevada, 1906; Professor of Physics, University of Nevada, 1907-09; Associate Professor of Physics, University of California, 1909-19; Professor of Physics, University of California, 1919-.

ERNEST CARROLL MOORE, Ph.D., LL.D., Director, Southern Branch.

A.B., Ohio Normal University, 1892; LL.B., 1894; M.A., Columbia University, 1896; Ph.D., University of Chicago, 1898; LL.W., University of Southern California, 1916; Instructor in Philosophy, 1897-1901; Instructor in Education, University of California, 1901-02; Assistant Professor of Education, University of California, 1902-06; Dean of Summer Session, University of California, 1905-07; Professor of Education, Yale University, 1910-14; Harvard University, 1913-17; President, State Normal School, Los Angeles, 1917-19; Director, Southern Branch University of California, 1919-.

BENJAMIN H. MORRISON, M.A., Instructor in Mechanics, Art, Berkeley Public Schools; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

MELTON V. MOWBRAY, Jr., B.S., Instructor in Drawing, Fremont High School, Oakland.

B.S., University of California, 1913; architectural draftsman, 1913-14; Drawing Instructor in Oakland School Department, 1914-.

WALTER MULFORD, F.E., Professor of Forestry, and Director of Resident Instruction.

CHARLES A. MURPHY, Instructor in Electricity, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

PERHAM W. NAHL, Assistant Professor of Freehand Drawing and Art Anatomy.

GLADYS MARGARET NEVENZEL, Supervisor Training School Home Economics, San Diego State Normal School.

Graduate, Normal Department (Home Economics), Throop Polytechnic Institute, Pasadena, 1910; Teacher, Monrovia High School, 1912-15; Teacher, Los Angeles Elementary Schools, 1915-17; San Diego State Normal School, 1917-.

FREDERICK G. NICHOLS, Assistant Director of the Federal Board for Vocational Education, Washington; in charge of the Department of Commercial Education.

Graduate, Genesee Wesleyan Seminary, Lima, New York; Head of Commercial Department, Montpelier Seminary, Vermont; Director of Business Education in day and evening schools of Rochester, N. Y.

HELEN SCHENCK NICHOLSON, A.M., Instructor in Romance Languages, University of Arizona, Tucson.

A.B., Vassar College, 1907; Teacher in Porto Rico, 1907-09; Teacher of Spanish, Tucson High School, 1912-18; A.M., University of Arizona, 1918.

FRANCESCA L. OTTO, Instructor in Office Practice, John Fremont High School.

A.B., University of Indiana, 1897; Instructor in Latin, Bluffton, Indiana, 1897-1900; commercial work, 1900-01; Secretary to the President of Stout Institute, and High School Teacher, 1903-07; Appointment Secretary, Stout Institute, 1907-12; student, University of California, 1912-18; Instructor, Fremont High School, 1918-.

GLADYS EVELYN PALMER, B.A., Instructor in Physical Education, Southern Branch, University of California.

B.A., University of Wisconsin, 1918; holder of world's record baseball throw for women, 1918; drew up Basketball Technique Chart, Spalding Office Guide, 1916-17-18; Instructor, Southern Branch, 1919-.

LAURANCE N. PEASE, Head Commercial Department, Stockton High School.

WALTER BOUGHTON PITKIN, A.B., Professor of Journalism, Columbia University, New York.

A.B., University of Michigan, 1900; Graduate study in Paris, Berlin, and Munich, 1900-05; Editorial service on N. Y. Tribune, N. Y. Evening Post; contributions to Saturday Evening Post, Collier's Weekly, etc.; in charge of teaching of magazine writing and fiction at the School of Journalism, Columbia University, 1910-.

GEORGE C. POLSON, Instructor in Mechanical Drawing, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

WILLIAM CYRUS POMEROY, B.S., Instructor in Physics.

B.S., University of California, 1914; Assistant in Physics, University of California, 1916-19; Instructor in Physics, 1919-.

CHARLES WALTER PORTER, Ph.D., Assistant Professor of Chemistry.

B.S., Utah Agricultural College, 1905; A.M., Harvard University, 1909; Professor of Chemistry, Utah Agricultural College, 1905-17; Ph.D., University of California, 1915; Lecturer in Chemistry, University of California, 1917-18; Assistant Professor of Chemistry, University of California, 1918-.

JANE J. POULSEN, B.A., Teacher of Science, Santa Barbara High School.

B.A., University of South Dakota, 1912; Teacher, Biology and General Science, John Muir Intermediate School, Pasadena, California; Teacher of Science, Santa Barbara High School.

HAZEL H. PRATT, A.B., Assistant Professor of Physical Education, University of Kansas.

A.B., Ohio State University, 1914; holder of diploma from Harvard Summer School of Physical Education, 1915; Director of Play, Columbus, Ohio, summers of 1911 and 1912; Director of Physical Education, Western College, Oxford, Ohio, 1914-15; Director of Play, Minneapolis, summer of 1916; Director of Recreation, Y. W. C. A., National Board Camp, Asilomar, California, 1919; student in Harvard Summer Session, 1918-15.

CLARENCE MERLE PRICE, B.S., Instructor in Physical Education.

B.S., University of California, 1914; Teacher, San Diego High School, 1914-17; U. S. Air Service, 1917-18; Instructor in Physical Education, University of California, 1919-.

LAWRENCE MARSDEN PRICE, Ph.D., Instructor in German.

A.B., Tufts College, Mass., 1908; A.M., Tufts College, Mass., 1908; Ph.D., University of Wisconsin, 1910; student, University of Leipzig, Germany; Instructor, University of Missouri, 1911-15; Instructor in German, University of California, 1915-.

HERBERT INGRAM PRIESTLEY, Ph.D., Assistant Professor of Mexican History.

M.A., University of Southern California, 1907; Teacher of Spanish, Riverside High School, 1907-10; Superintendent of Schools, Corona, California, 1910-12; Ph.D., University of California, 1917; Assistant Curator, Bancroft Library, 1912-; Assistant Professor of Mexican History, 1917-.

THOMAS MILTON PUTNAM, Ph.D., Professor of Mathematics; Dean of the Undergraduate Division; Acting Dean of the College of Letters and Science.

B.S., University of California, 1897; Assistant in Mathematics, University of California, 1898-99; M.S., University of California, 1899; Instructor in Mathematics, University of Texas, 1899-1900; Ph.D., University of Chicago, 1901; Instructor, University of California, 1901-07; Assistant Professor of Mathematics, University of California, 1907-14; Associate Professor, 1914-18; Professor of Mathematics, University of California, 1919-.

MADGE QUIGLEY, Instructor in Harmony and Ear Training in the Summer Session.

CHARLES HARVEY RAYMOND, A.B., Instructor in English in Business Practice.

A.B., Harvard University, 1910; Teacher of English, West Texas Military Institute, 1910-11; Instructor in English in Business Practice, University of California.

FRANKLIN PEARCE REAGAN, Ph.D., Assistant Professor of Zoology.

A.B., Indiana University, 1913; Ph.D., Princeton University, 1916; research in Princeton University and the Carnegie Institution of Embryology, 1916-17; Instructor in Military Aeronautics, United States Army, 1918-19; Instructor in Anatomy, Medical School of the University of Illinois, 1919.

A. CÉCILE RÉAU, C.A.L., Professor of French, Mills College.

HELEN REYNOLDS, Supervisor of Elementary Education, Seattle.

ROLAND GEORGE DWIGHT RICHARDSON, Ph.D., Head of the Department of Mathematics, Brown University.

B.A., Acadia College, 1898; B.A., Yale, 1903; M.A., Yale, 1904; Ph.D., Yale, 1906; student, University of Gottingen, Germany, 1908-09; Instructor in Nova Scotia schools, 1895-1902; Instructor in Mathematics, Yale, 1904-07; Assistant Professor, Associate Professor, and Professor of Mathematics, Yale, 1907-.

C. L. ROADHOUSE, M.D.V., Professor of Dairy Industry.

PERCY E. ROWELL, M.S., Grad. Ed., Instructor in Smith-Hughes Science, Oakland Technical High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

GUSTAVUS HILL ROBINSON, LL.B., Professor of Law.

A.B., Harvard College, 1905; Member of Massachusetts and New York bars, and of U. S. Courts at New York City; law practice, 1909-12; Professor of Law, Tulane University, New Orleans, 1912-15; Professor of Law, University of Missouri, 1916-18; Captain, U. S. A., and Law Enforcement Officer, 1918-19.

T. J. ROSEMAN, B.S., Principal, Boonville (Cal.) High School and Director of Vocational Agriculture.

ARTHUR WILLIAM RYDER, Ph.D., Associate Professor of Sanskrit.

A.B., Harvard University, 1897; Ph.D., Leipzig, 1901; Instructor in Latin, Phillips Andover Academy, 1897-98; Assistant in Sanskrit, Harvard, 1901-02; Instructor, 1902-05; Instructor and Associate Professor of Sanskrit, University of California, 1906-.

FRANCES ELLIS SABIN, M.A., Assistant Professor of Latin, University of Wisconsin.

Ph.B., University of Michigan, 1895; M.A., University of Michigan, 1896; Instructor in Latin, High School, Ft. Wayne, Ind., 1896-1900; student at American School of Classical Studies, Rome, 1900-01; Graduate student, University of Chicago, 1902-05; Instructor in Latin, High School, Oak Park, Ill., 1906-14; Assistant Professor of Latin in the University of Wisconsin, and Supervisor of Latin in the Wisconsin High School, 1914-20.

ETHEL IMOGENE SALISBURY, M.A., Director of Kindergarten and Elementary Schools, Berkeley Public Schools.

A.B., University of Illinois, 1913; Elementary Supervisor, Rockford, Ill., 1913-17; M.A., Columbia University, 1917; Kindergarten and Primary Supervisor, Duluth, Minn., 1917-19; Director of Kindergarten and Primary Education, Berkeley, 1919-.

EDWARD MCCHESENEY SAIT, Ph.D., Assistant Professor of Politics, Columbia University.

M.A., University of Toronto, 1908; Lecturer in History, Toronto University, 1908-06; Ph.D., Columbia University, 1911; Instructor in History, College of the City of New York, 1908-09; Lecturer, Instructor, Assistant Professor, Columbia University, 1909.

THOMAS FREDERICK SANFORD, B.A., Associate Professor of English Literature.

B.A., Yale University, 1888; Instructor, Assistant Professor, and Associate Professor of English Literature, University of California, 1898-.

RUDOLPH SCHEVILL, Ph.D., Professor of Spanish.

B.A., Yale University, 1896; student, Munich, Paris, Madrid, 1896-99, 1904-05; Ph.D., University of Munich, 1898; Assistant Professor of Spanish, Yale; Professor of Spanish, University of California.

FRANKLYN SCHNEIDER, Ph.D., Instructor in German.

A.B., University of California, 1910; M.A., University of California, 1912; Assistant in German and Spanish, University of California, 1911-13; studied in Germany and Spain, 1913-15; Instructor in German, University of California, 1915-.

MILLICENT L. SEARS, B.S., Professor of Home Economics, University of Nevada.

Head, School of Household Arts and Practice House, South Manchester, Conn., 1911-14; Instructor, Department of Foods and Cookery, Teachers College, N. Y., 1914-16; B.S., Columbia University, 1916; Head, Home Economics Department, National Park Seminary, Washington, D. C., 1916-17; Professor of Home Economics, University of Nevada, 1917-.

CLAIRE SOULÉ SEAY, A.B., Instructor in English, Marlborough School for Girls, Los Angeles.

MARY SEVERANCE SHAFER, Instructor of Dancing.

Instructor in Physical Education, Miss Horton's School, Oakland, 1908-18; Instructor in Physical Education, University of California, 1918.

ODELL SHEPARD, Ph.D., Goodwin Professor of English, Trinity College.

B.A., University of Chicago, 1907; Ph.M., University of Chicago, 1908; Instructor in English, Smith Academy, St. Louis, 1908-09; Assistant Professor of English, University of Southern California, 1909-10; Professor of English, University of Southern California, 1910-14; Ph.D., Harvard University, 1916; Instructor in English, Harvard University and Radcliffe College, 1916-17; Professor of English, Trinity College, 1917-.

GEORGE EULAS FOSTER SHERWOOD, A.M., Associate Professor of Mathematics, University of California, Southern Branch.

A.B., University of New Brunswick, 1904; Instructor in Mathematics, Colorado School of Mines, 1908-09; Assistant Professor of Mathematics, Colorado School of Mines, 1909-12; A.M., Harvard University, 1913; Associate Professor of Mathematics, Colorado School of Mines, 1913-18; Instructor in Mathematics, Chicago University, 1918-19.

EDWIN DUBOIS SHUTER, Ph.B., Professor of Public Speaking and Director of the Department of Extension, University of Texas.

Ph.B., Cornell University, 1892; Instructor in English and Oratory, Stanford University, 1893-94; Instructor in Oratory, Cornell, 1894-99; Professor of Public Speaking, University of Texas, 1899-1920-.

CLAY D. SLINKER, Director of Business Education, Des Moines, Iowa.

CASSIE PAINE SMALL, Educational Director, Bon Marche, Seattle.

FRANK JASON SMILEY, Ph.D., Assistant Professor of Economic Botany and Assistant Botanist of the Agricultural Experiment Station.

A.B., Stanford University, 1913; A.M., Stanford University, 1914; Instructor in Botany, University of California, 1915-16; Ph.D., Harvard University, 1917; Assistant Professor of Botany and Geology, Occidental College, 1916-17; Assistant Professor of Economic Botany and Assistant Botanist to the Experiment Station, University of California, 1919-.

A. HAVEN SMITH, A.B., Dean, Riverside Junior College.

A.B., Dickinson College, 1904; Assistant in Physics, Cornell University, 1910-11; Head of Science Department, Polytechnic High School, Riverside, California, 1911-; Dean, Riverside Junior College, Riverside, California, 1916-.

ALFRED SOLOMON, M.A., Assistant Professor of French.

A.B., Occidental College, 1900; A.B., University of California, 1902; M.A., University of California, 1908; Assistant in French, University of California, 1902-09; Instructor in French, University of California, 1909-19; Assistant Professor of French, University of California, 1919-.

FLORENCE C. SPARKS, Instructor in Typewriting, Yonkers High School, Yonkers, N. Y.

LOUISE STANLEY, Ph.D., Professor of Home Economics, University of Missouri.

B.S., Peabody College, Nashville, Tenn., 1903; B.Ed., University of Chicago, 1906; M.A., Columbia University, 1907; Ph.D., Yale University, 1911; Special Agent for Home Economics Education with Federal Board for Vocational Education, Washington, D. C., 1918-19.

THOMAS DALE STEWART, Ph.D., Instructor in Chemistry.

B.S., 1913, M.S., 1914, Ph.D., 1916, University of California; Instructor in Chemistry, University of Chicago, 1916-17; Captain, Chemical War Service, American Expeditionary Forces, 1917-18; Instructor in Chemistry, University of California, 1919-.

TRACY LEWIN STORER, M.S., Field Naturalist, Museum of Vertebrate Zoology.

B.S., University of California, 1912; M.S., University of California, 1918; Assistant Instructor in Zoology, University of California, 1912-14; Instructor, Summer Session, University of California, 1914; Assistant Curator of Birds, Museum of Vertebrate Zoology, University of California, 1914-17; Field Naturalist, Museum of Vertebrate Zoology, University of California, 1919-.

EVA J. SULLIVAN, Instructor in Stenography and Business Training, Kansas City Polytechnic Institute.

CHARLES C. SWAFFORD, M.S., Instructor in Civil Engineering.

REGINALD EDWIN SWEETLAND, A.B., Assistant in English.

A.B., University of California, 1919; Assistant in Journalism, University of California Summer Session, 1919; Assistant in English, University of California, 1919-.

CAREYL NELSON THURBER, A.M., Instructor in English in the Summer Session.

A.B., Cornell University, 1908; Instructor in English, Case School of Applied Science, Cleveland, Ohio, 1913-15; Assistant in English, University of Illinois, 1915-17; A.M., University of Illinois, 1917; U. S. Military Service, 1918-19.

MARTIN HERMAN TRIEB, Assistant in Physical Education.

Harvard University Summer School for Physical Education, 1914; Physical Director, Public Schools and Athletic Club, Holstein, Iowa, 1910-12; Physical Director, Sacramento Turnverein, 1912-14; Physical Director, Los Angeles Turnverein, 1914-17; U. S. Naval Service, 1918; Assistant in Physical Education, University of California, 1917-.

FRANCES ANSLEY TORREY, A.B., Assistant in Anatomy in the Summer Session.

A.B., University of California, 1915; Assistant in Anatomy, University of California, 1918-19; Instructor in Zoology, Anatomy, and Physics, Mills College, 1919.

G. H. TRUE, B.S., Professor of Animal Husbandry.

D. W. TUBBS, B.S., Assistant in Agricultural Engineering.

W. P. TUFTS, M.S., Assistant Professor of Pomology.

KATHERINE SMITH TURNER, A.B., Instructor in French in the Summer Session.

A.B., University of California, 1904; Lecteur d'Anglais, Universite de Dijon, France; student, University of Heidelberg, 1906-07; Universite de Dijon, 1907-09; Sorbonne, Paris, 1909-18; Assistant in French, University of California, 1918-19; Assistant in French, Summer Session of the University of California, 1918-19.

CHARLES ALFRED TURRELL, A.M., Professor of Romance Languages, University of Arizona.

B.Sc., University of Nebraska, 1896; A.M., University of Missouri, 1901; Licenciado en Letras, University of Madrid, Spain, 1912; Professor of Romance Languages, University of Arizona, 1904-.

WILLIAM W. UPDERGRAFF, Instructor in Machine Shop, Oakland Vocational High School; Instructor Teacher Training Classes; Trade and Industrial Education, Oakland Center.

THEODORE A. VIEHMAN, B.A., Instructor in Drama Department, Carnegie Institute of Technology.

B.A. in Drama, Carnegie Institute of Technology, 1918; Instructor, Carnegie Institute of Technology, 1916-20-; Instructor, Sharp's School of English Folk Dance and Song, 1917; Instructor, University of California Summer Session, 1919.

MAY V. WALLACE, M.A., Instructor in Public Health.

A.B., Kansas State University, 1909; Laboratory Instructor, Chemistry, University of Kansas, 1908-09; Teacher of Sciences, Lawrence High Schools, Kansas, 1909-14; Assistant Instructor in Food Preparation, University of Kansas, 1914; M.A., Missouri State University, 1915; Teacher of Sciences, Montebello High School, 1915-17.

DWIGHT EVERETT WATKINS, A.M., Assistant Professor of Public Speaking.

A.B., University of Michigan, 1901; English Department, Orchard Lake Military Academy, Mich., 1902; Head, Public Speaking Department, High School, Akron, Ohio, 1905-07; A.M., University of Michigan, 1908; Head, Public Speaking Department, Knox College, 1908-18; Assistant Professor of Public Speaking, University of California, 1918-.

JOHN C. WHITTEN, Ph.D., Professor of Pomology.

GERTRUDE NANCY WHITTON, A.B., Instructor in the Oakland Technical High School and Supervisor of Children's Health Centers, Oakland.

A.B., University of California, 1917; Instructor in Chico State Normal School Summer Session, 1918; Instructor in Physiology, Oakland Technical High School, 1918-20; Instructor of Nurses in Dietetics, Fabiola, Merritt, and Providence Hospitals, Oakland, 1918-19; Supervisor of Children's Health Centers, Oakland, 1920.

EARL H. WIGHT, B.L., Instructor in Physical Education.

B.L., University of California, 1914; Director of Physical Education, Glendale Union High School, 1914-17; Instructor in Physical Education, University of California, 1917-.

MAUDE WILDES, A.B., Recreation Department, Oakland.

W. S. WILKINSON, B.S., Assistant in Agronomy.

WILLIAMS H. WILLIAMS, Graduate, U. S. Military Academy, Instructor in Physics.

HARRY BRUCE WILSON, LL.D., Superintendent of City Schools, Berkeley.

Principal of High School, Salem, Indiana, 1895-97; Superintendent of Schools, Salem, Indiana, 1897-1902; A.B., Indiana University, 1905; Superintendent of Schools, Franklin, Indiana, 1902-07; A.M., Columbia University, 1910; Superintendent of Schools, Decatur, Illinois, 1907-18; LL.D., Washburn College, 1917; Superintendent of Schools, Topeka, Kansas, 1918-18; Superintendent of Schools, Berkeley, California, 1918-.

MYRTLE JEAN WILLIAMSON, A.B., Instructor in Graphic Art.

A.B., University of California, 1916; Teacher of Drawing, Siskiyou Union High School, 1917-19; Assistant in Graphic Art, University of California, 1919-.

J. F. WILSON, M.A., Assistant Professor of Animal Husbandry.

CHARLES W. WOODWORTH, M.S., Professor of Entomology.

KARL YOUNG, Ph.D., Professor of English, University of Wisconsin.

A.B., University of Michigan, 1901; A.M., Harvard University, 1902; Instructor in English, United States Naval Academy, 1903-04; Professor of English, United States Naval Academy, 1904-05; Ph.D., Harvard University, 1907; Assistant Professor, Associate Professor, and Professor of English, University of Wisconsin, 1908-20-.

AGRICULTURE

CHARLES W. WOODWORTH, M.S., Professor of Entomology.

JOHN W. GILMORE, M.S., Professor of Agronomy.

WALTER MULFORD, F.E., Professor of Forestry, and Director of Resident Instruction.

JOHN C. WHITTEN, Ph.D., Professor of Pomology.

RICHARD L. ADAMS, M.S., Professor of Farm Management.

WILLIAM T. HORNE, B.S., Associate Professor of Plant Pathology.

FREDERICK L. GRIFFIN, M.S., Associate Professor of Agricultural Education.

O. J. KERN, Assistant Professor of Agricultural Education.

ROY E. CLAUSEN, Ph.D., Assistant Professor of Genetics.

GEORGE A. COLEMAN, M.A., Instructor in Entomology.

JULIUS L. COLLINS, B.S., Instructor in Genetics.

INTERSESSION COURSES

(May 10 to June 19, 1920)

AGRICULTURAL EDUCATION**202. Special Problems in Agricultural Education. (GRIFFIN and STAFF)**

A seminar in which the instructors of the division and graduate students may participate. Reading; organization of subject matter into syllabus and outline form; examination and criticism of outlines now in use; and a study of the methods of secondary agricultural instruction. 2 to 4 units.

299. Thesis for the Master's Degree. (GRIFFIN and STAFF)

Especially for agricultural high school teachers who have the B.S. degree in agriculture and who desire to comply with the residence requirements for the Master's degree and to obtain recommendation for the teacher's certificate.

AGRONOMY**200. Research in Agronomy. (GILMORE)**

For graduate students, who are able to pursue research studies in special topics. 2 to 4 units.

Hours to be arranged.

ENTOMOLOGY**2. Economic Entomology.**

(WOODWORTH)

Detailed study of a series of the most injurious insects. This course corresponds to Entomology 2 of the regular session. 2 units.

M Tu W Th F, 11.

103. General Entomology.

(WOODWORTH)

This course corresponds to Entomology 103 of the regular session. Hours and credit to be arranged.

163. Practical Course in Apiculture.

(COLEMAN)

Practical work in the apiaries in the Monterey National Forest with headquarters at Arbolado on the Big Sur. Primarily for students in the Colleges of Agriculture and Letters and Science, specializing in Apiculture. Summer Session students who give evidence of adequate preparation will be admitted to the course. Students who wish to enroll should apply before May 1, 1920, to Mr. George A. Coleman, 9 Agriculture Hall, University of California, Berkeley. 2 units.

Any six weeks from May 15 to August 15, 1920.

207. Microscopic Testing and Calculation.

(WOODWORTH)

Hours and credit to be arranged.

FARM MANAGEMENT**203. Farm Management for Intersession Graduate Students. (ADAMS)**

Investigations into the farm management practices of the state; review of the literature on the subject for the purpose of training students in the principles and practices of (a) practicing farm managers, (b) investigators, (c) teachers. 2 to 6 units.

Hours to be arranged.

FORESTRY**200. Research in Forestry.**

(MULFORD and STAFF)

Individual problems in forest engineering, forest production, or silviculture. The work may be done at Berkeley or on the Plumas National Forest in the Sierras. 3 to 6 units.

Hours to be arranged.

GENETICS

200. **Research in Genetics.**

(BABCOCK and STAFF)

Research on plant and insect material, with one hour of conference per week. 3 to 6 units.

Hours to be arranged.

PLANT PATHOLOGY

230. **Graduate Research.**

(HORNE)

Original investigations and special problems in plant pathology.

Credit and hours to be arranged.

POMOLOGY

201. **Research in Pomology.**

(WHITTEN)

Special problems of research embracing field or laboratory investigations with correlated reading. The subject to be arranged. 1 to 6 units.

Hours to be arranged.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

AGRICULTURAL EDUCATION

S103. **Agencies for Rural Progress.**

(KERN)

Origin and progress of rural society. A brief survey of American agriculture. The rural problem and rural leadership. Study of various phases of community life and the means of utilizing the best agencies for the improvement of country life. Rural democracy and reconstruction. Classroom discussions, assigned readings and reports. Illustrated lectures. 2 units.

M Tu W Th F, 8. 304 Budd Hall.

S105. **Rural School Administration.**

(KERN)

The rural school and its relation to country life. Readings and class discussions of the essentials of a good physical equipment. Problems of organization and management. Factors in the daily programme. Socializing the course of study. Consolidation and its relation to the future of a rural civilization. The leadership of the teacher. Illustrated lectures on rural school improvement. 2 units.

M Tu W Th F, 9. 304 Budd Hall.

202. Special Problems in Agricultural Education. (GRIFFIN and STAFF)

A seminar in which the instructors of the division and graduate students may participate. Reference reading; organization of subject matter into syllabus and outline form; examination and criticism of outlines now in use; and a study of the methods of secondary agricultural instruction. 2 to 4 units.

299. Thesis for the Master's Degree. (GRIFFIN and STAFF)

Specially for the agricultural high school teachers who have the B.S. degree in agriculture and who desire to comply with the residence requirements for the Master's degree and to obtain recommendation for the teacher's certificate.

AGRONOMY**200. Research in Agronomy. (GILMORE)**

For graduate students who are able to pursue research studies in special topics. 2 to 6 units.

Hours to be arranged.

ENTOMOLOGY**2. Economic Entomology. (WOODWORTH)**

Detailed study of a series of the most injurious insects. This course corresponds to Entomology 2 of the regular session. 5 hours. 2 units credit.

M Tu W Th F, 11.

103. General Entomology. (WOODWORTH)

This course corresponds to Entomology 103 of the regular session. Hours and credit to be arranged.

163. Practical Course in Apiculture. (COLEMAN)

Practical work in the apiaries in the Monterey National Forest with headquarters at Arbolado on the Big Sur. Primarily for students in the Colleges of Agriculture and Letters and Science, specializing in Apiculture. Summer Session students who give evidence of adequate preparation will be admitted to the course. Students who wish to enroll should apply before May 1, 1920, to Mr. George A. Coleman, 9 Agriculture Hall, University of California, Berkeley. 2 units.

Any six weeks from May 15 to August 15, 1920.

207. Microscopic Testing and Calculation. (WOODWORTH)

Hours and credit to be arranged.

FORESTRY

200. Research in Forestry. (MULFORD and STAFF)

Individual problems in forest engineering, forest production, or silviculture. The work may be done at Berkeley or in the Plumas National Forest in the Sierras. 3 to 6 units.

Hours to be arranged.

GENETICS

1. The Principles of Breeding Plants and Animals.

(BABCOCK, CLAUSEN, and COLLINS)

A study of variation and heredity with reference to plant and animal improvement. 11 hours. 3 units. 3 lectures, 2 recitations and 2 laboratory periods each week. Prerequisite: Botany 2A-2B, Zoology 1A.

Lectures, M W F, 8. Laboratory, Tu Th, 8; Tu Th, 1-4.

Note.—This course is offered for the accommodation of students in the College of Agriculture who are unable to take it January-May, 1920, owing to the fact of their having been in military service. No other students will be admitted. The course will not be given unless 25 students apply for it by April 15, 1920. Application should be made in writing and sent to the office of the Dean of the College of Agriculture, 111 Agriculture Hall.

200. Research in Genetics. (BABCOCK and STAFF)

Research in plant and insect material, with not more than one hour of conference per week. 3 to 6 units.

Hours to be arranged.

PLANT PATHOLOGY

230. Graduate Research. (HORNE)

Original investigations and special problems in Plant Pathology. Credit and hours to be arranged.

POMOLOGY

201. Research in Pomology. (WHITTEN)

Special problems of research embracing field or laboratory investigations with correlated reading. The subject to be arranged with the head of the division. 1 to 6 units credit.

Hours to be arranged.

SOIL TECHNOLOGY

1. Origin, Formation, Classification, Properties, and Management of Soils. (SHAW)

Lectures M Tu W Th F, 9. Laboratory periods, M W F, 1-4.

14 hours. 3 units. 5 lectures and 3 3-hour laboratory periods. Prerequisite: Chemistry 1A-1B and Geology 1A.

Note.—This course is offered for the accommodation of students in the College of Agriculture who were unable to take it January-May, 1920, owing to the fact of their having been in military service. No other students will be admitted. The course will not be given unless 15 students apply for it by April 15, 1920. Application should be made in writing and sent to the office of the Dean of the College of Agriculture, 111 Agriculture Hall.

ANATOMY

RUBY L. CUNNINGHAM, M.D., M.S., Assistant Professor of Hygiene and Physician for Women.

FRANCES A. TORREY, A.B., Assistant in Anatomy in the Summer Session.

SUMMER SESSION COURSE

(June 21 to July 31, 1920)

S102. General Human Anatomy. (CUNNINGHAM and TORREY)

An elementary study of the architecture and structure of the human body. Lectures and laboratory demonstrations with models and prepared human dissections. Designed for non-medical students. This course meets the requirements in anatomy demanded of students in physical education, public health, and hygiene. 3 units. Lectures: M Tu W Th F, 8; demonstrations, M W, 9-12, F, 9-11. Anatomy Building.

ANTHROPOLOGY

JAIMÉ DE ANGULO, Instructor in Anthropology in the Summer Session.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

101. The Relation of Psychology to Anthropology. (DE ANGULO)

Intellect and emotions; the psychology of primitive peoples and modern man; neuroses; the psychoanalytical school; Freud; Jung; connections between pathological mentality and primitive customs and beliefs. 2 units.

M Tu W Th F, 2.

102. The Mind of Primitive Man. (DE ANGULO)

The logical and prelogical mind; Lévy-Brühl's law of participation. Totemism; taboo. Birth, death and after-death, the soul. Adoption, names, kinship, wars, social activities. Language, counting, religion. Mysticism and the evolution toward reason. 2 units.

M Tu W Th F, 3.

ASTRONOMY

WILLIAM F. MEYER, Ph.D., Assistant Professor of Mathematics and Astronomy.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S1. Elements of Astronomy.**(MEYER)**

An introductory course, largely descriptive in character, designed primarily to meet the needs of those who desire a general knowledge of the subject. Lantern slides will be used freely to illustrate the lectures. 2 units.

M Tu W Th F, 9. 1 Observatory.

S117. Astrophysics.**(MEYER)**

A general review of present day problems in astrophysics. The course is designed for students and teachers interested in astronomy, physics, and general science. Three lectures and two laboratory periods per week. 2 units.

Hours to be arranged. Class meets for organization June 21, 2 p.m., 11 Observatory.

BOTANY

FRANK J. SMILEY, Ph.D., Assistant Professor of Economic Botany and Assistant Botanist in the Agricultural Experiment Station.

HOWARD E. McMINN, M.A., Professor of Botany, Mills College.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

82. General Botany.

(SMILEY, McMINN)

The Manner of Living of the Plant. The aim of this course is to give the student an understanding of the fundamental processes in the life of plants in general and of seed-plants in particular and of the significance of these processes for human welfare. 4 units. Fee, \$2.50.

Lectures, M Tu W Th F, 8; laboratory, 9-12.

4. Plants and Plant Communities of the Bay Region.

(McMINN)

Practice by the use of common manuals and keys in the naming and classifying of the seed-plants native about the bay region, with informal lectures on their natural association. It is expected that each member of the class will acquire familiarity with the terms used in systematic botany and some knowledge of the principles of taxonomy. 2 units. Fee, \$2.50.

Laboratory, M Tu W Th F, 1.

5. The Principles of Economic Botany.

(SMILEY)

Lectures, with assigned reading, concerning the more important cultivated plants of the world, their botanical characters, and economic products. Designed especially for students of agriculture and for teachers. 2 units. Fee, \$1.50.

Lectures, M Tu W Th F, 10.

CHEMISTRY

M. GOMBERG, Ph.D., Professor of Chemistry, University of Michigan.

CHARLES W. PORTER, Ph.D., Assistant Professor of Chemistry.

GEORGE E. GIBSON, Ph.D., Assistant Professor of Chemistry.

GERALD E. K. BRANCH, Ph.D., Assistant Professor of Chemistry.

T. D. STEWART, Ph.D., Instructor in Chemistry.

ERMON D. EASTMAN, Ph.D., Instructor in Chemistry.

WENDELL M. LATIMER, Ph.D., Instructor in Chemistry.

THORFIN R. HOGNESS, DWIGHT BARDWELL, THEO. F. BUEHRER, PHILIP S.

DANNER, FRANCIS H. THURBER, ALBERT M. WILLIAMS, SHEERWIN

MAESER, Assistants.

The chemical laboratories will be open daily, except Saturday, from 8 a.m. to 5 p.m. A fee of \$10.00 and a breakage deposit of \$5.00 must be paid to the Comptroller for each course which requires work in the laboratory.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S1A. General Inorganic Chemistry and Qualitative Analysis. (LATIMER)

5 units.

Lectures, M Tu W Th F, 9; laboratory, M Tu W Th F, 1-3; quiz,
M W F, 3-4.

S5. Quantitative Analysis—Gravimetric and Volumetric (Inorganic).

(GIBSON)

A short course in the principles and methods of quantitative analysis.
3 units.

Lectures and laboratory work, M Tu W Th F, 1-5.

S100. Quantitative Analysis (Organic).

(BRANCH)

The quantitative methods of organic chemistry. 3 units.

Lectures and laboratory, M Tu W Th F, 1-5.

S290. Seminar in Inorganic and Physical Chemistry.

(The STAFF)

Time and credit to be announced later.

SUMMER SESSION COURSES*(June 21 to July 31, 1920)***A. Elementary Chemistry.****(PORTER)**

An introduction to general chemistry. Credit for matriculation chemistry 12b will be given for the satisfactory completion of this course. Lectures and experimental illustrations, or recitations, and fifteen hours of laboratory work per week.

Students should register for this course in Room 25, Freshman Laboratory, Chemistry Building.

Lectures, M Tu W Th F, 9; laboratory, M Tu W Th F, 1-4.

S1a. General Inorganic Chemistry and Qualitative Analysis. (EASTMAN)

Continuation of Chemistry 1a. 5 units.

Lectures, M Tu W Th F, 9; laboratory, M Tu W Th F, 1-3; quiz, M W F, 3-4.

S8. Elements of Organic Chemistry.**(GOMBERG)**

An introduction to the study of the carbon compounds. Lectures and experimental illustrations. 2 units.

M Tu W Th F, 11.

S9. Organic Chemistry: Laboratory.**(STEWART)**

The preparation of organic compounds: a study of their properties and characteristic reactions. 3 units.

M Tu W Th F, 1-5.

S190. Seminar.**(GOMBERG)**

Recent advances in organic chemistry. 1 unit.

M W F, 10.

CIVIL ENGINEERING**SUMMER SCHOOL OF SURVEYING****CAMP CALIFORNIA, SWANTON, CALIFORNIA**

CHARLES DERLETH, Jr., C.E., Professor of Civil Engineering and Dean of the College of Civil Engineering.

***FRANCIS SEELEY FOOTE, Jr., E.M.**, Professor of Railroad Engineering.

ARTHUR CARL ALVAREZ, B.S., Associate Professor of Civil Engineering and Director of the Summer School of Surveying.

CHARLES C. SWAFFORD, M.S., Instructor in Civil Engineering.

STURLA EINARSSON, Ph.D., Assistant Professor of Practical Astronomy.

WILLIAM C. POMEROY, B.S., Instructor in Physics.

Additional instructors, a medical officer, who will also act as commissary agent, and the necessary cooks, janitors and helpers will be appointed before May 1, 1920.

The Summer School of Surveying is held at a camp established at the junction of Scott and Little Creeks, Santa Cruz County, within one and one-half miles of the ocean coast; sixteen miles northwest of Santa Cruz on the Ocean Shore Railroad. The session begins Thursday, May 13, and is four weeks in length.

UNIVERSITY FEE

All students attending camp pay a University fee of twenty dollars.

COMMISSARY DEPOSIT

A deposit of thirty-five dollars is required from each student, to cover expenses incurred for board at camp, fines for injury to instruments or camp equipment, etc. Any surplus not required to cover the above items is returned to the student.

The University fee and commissary deposit must be paid in advance to the Comptroller of the University at Berkeley. Receipts for these payments must be shown to the Camp Director after reaching camp.

* Absent on leave for 1920.

Civil Engineering 3.

(ALVAREZ, SWAFFORD, EINARSSON, POMEROY, and Assistants)

This course consists of field practice in plane surveying, comprising such subjects as:

Determination of length of base lines.

Measurement of horizontal angles by repetition.

Triangulation.

Azimuth traverse.

Differential and profile leveling.

Topographic survey, by plane table and stadia.

Determination of latitude and azimuth with engineer's transit,
by solar and Polaris observations.

Military sketching.

Four weeks' continuous field work. Required of freshmen in the Colleges of Civil Engineering and Mining. Prerequisite: course Civil Engineering 1A, 1B. 3 units. Students with grade 4 or incomplete in course CE 1B will not be admitted to course CE 3.

Civil Engineering 103.

(ALVAREZ, POMEROY, and Assistants)

This course comprises field and office work necessary for the location of a short railroad line, including:

Reconnaissance.

Preliminary surveys.

Final location.

Cross-sectioning.

Drainage area and right-of-way surveys.

Maps and profiles.

Estimates of quantities and costs.

Prescribed at the end of the junior year for all students in the College of Civil Engineering. Prerequisite: courses 3 and 102. Four weeks' continuous field practice. 3 units.

Students interested in surveying field practice are advised to secure the Special Bulletin of Information of the Summer School of Surveying.

Communications regarding the work of the Summer School of Surveying should be addressed to the Dean of the College of Civil Engineering, University of California, Berkeley, California.

COMMERCE

- STEPHEN W. GILMAN, LL.B., C.P.A., Professor of Business Administration, University of Wisconsin.
- FREDERICK G. NICHOLS, Assistant Director for Commercial Education, Federal Board for Vocational Education, Washington, D. C.
- JAMES O. MCKINSEY, M.A., C.P.A., Assistant Professor of Accounting, University of Chicago.
- EARL W. BARNHART, B.L., Supervisor of Commercial Training, University of California.
- MIRIAM E. BARKER, M.A., Instructor in Stenography, North Side High School, Denver, Colo.
- CLYDE I. BLANCHARD, B.A., Head Commercial Department, Berkeley High School.
- ANNA B. CARMAN, Instructor in Stenography, Julia Richman High School, New York City.
- FRANK J. KIRKER, Director of Business Training, Junior College of Kansas City.
- FRANCESCA L. OTTO, Instructor in Office Practice, John Fremont High School.
- CLAY D. SLINKER, Director of Business Education, Des Moines, Iowa.
- CASSIE PAINE SMALL, Educational Director, Bon Marché, Seattle, Washington.
- FLORENCE A. SPARKS, Instructor in Typewriting, Yonkers High School, Yonkers, N. Y.
- ESTA STUART, Instructor in Shorthand, Berkeley High School.
- EVA J. SULLIVAN, Instructor in Stenography and Business Training, Kansas City Polytechnic Institute.
- LAURANCE N. PEASE, Head Commercial Department, Stockton High School.
- W. C. HYATT, Head Commercial Department, Tamalpais Union High School.
- CHARLES A. GLOVER, Instructor in Bookkeeping, High School of Commerce, San Francisco.

INTERSESSION COURSES*(May 10 to June 19, 1920)***A. Elementary Stenography.****(STUART)**

Fundamental principles of Gregg shorthand. The first half of the manual; penmanship drills and supplementary work. Students

should be able to take dictation of simple matter at the rate of seventy-five words a minute at the conclusion of the course. 2 hours daily, 4 hours preparation. 4 units.

M Tu W Th F, 2-4.

B. Intermediate Stenography.

(BLANCHARD)

Review of the theory of Gregg shorthand; intensive work on the last half of the manual. Beginning speed dictation of letters and literary matter. Prerequisite: course A or its equivalent. 2 hours daily, 4 hours preparation. 4 units.

M Tu W Th F, 3-5.

C. Elementary Typewriting.

(BARNHART)

Drills for establishing the essential habits for accurate and rapid typewriting; knowledge of mechanism of the typewriter; fingering of entire keyboard; speed and accuracy drills; beginning copying work. 1 hour daily class work and 1 hour practice. 1 unit. Laboratory fee, \$1.50.

M Tu W Th F, 8. Laboratory, 9 or 10 or 11.

D. Intermediate Typewriting.

(BARNHART)

Drills for increasing speed and accuracy in typewriting. Plain copy; letter arrangement; rough draft copying; solid matter copying; introduction to transcribing. Prerequisite: knowledge of keyboard and ability to write approximately twenty-five words a minute. 1 hour daily class work and 1 hour practice. 1 unit. Laboratory fee, \$1.50.

M Tu W Th F, 9. Laboratory hour, 8 or 10 or 11.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

BUSINESS ADMINISTRATION

S120. Business Organization and Management.

(GILMAN)

Typical occupations, fundamental principles, and methods of modern business procedure. Internal management; the comparative advantages of various methods of organization and management; organization and of the market and marketing of manufactured goods; departmental and interdepartmental relations; office systems and reports; principles and types of management; modern aids; standardization; industrial betterment; office methods; credits and collections. 2 units.

M Tu W Th F, 10.

S133. Corporation Finance.

(GILMAN)

Essential principles of sound corporate financing. A study of different forms of financial organization and management. The nature and constituent elements of capitalization. Methods of raising capital. Practical financial problems. 2 units.

M Tu W Th F, 8.

ACCOUNTING**S14A. Principles of Accounting.**

(MCKINSEY)

The principles of accounting as illustrated in the standard forms of balance sheets and income and expense statements with particular reference to the analysis and use of financial statements in business organization and control. 2 units.

M Tu W Th F, 11, and laboratory hours to be arranged.

S300A. Accounting for Teachers of Bookkeeping in High Schools.

(MCKINSEY)

A course dealing with the accounting principles which are deemed of prime importance to teachers of the subject in secondary schools. Attention will be given to accounting texts and literature both elementary and advanced. 2 units.

M Tu W Th F, 9, and a laboratory hour to be arranged.

SECONDARY COMMERCIAL EDUCATION**S165. Commercial Education in Secondary Schools.**

(NICHOLS, BARNHART)

A survey of the field of commercial education in the secondary school, in three parts:

I. Organization and Administration of Commercial Education.

(NICHOLS)

Ten lectures outlining the field of organization in full-time, part-time, continuation, and evening commercial courses and the need of these classes. Administration of commercial education.

M Tu W Th F, 8. June 21 to July 2.

II. New Phases of Commercial Education.

(NICHOLS)

Ten lectures on the content of commercial subjects for continuation, evening, and other extension classes in commercial education.

M Tu W Th F, 7 p.m. June 21 to July 2.

III. Special Studies in Commercial Education. (BARNHART)

Ten lectures on selected topics from the field of commercial education intended to develop further the principles and subjects covered in the preceding parts of this course.

M Tu W Th F, 8. July 5 to 16.

2 units will be given for those who do the work outlined in all three parts.

THE DEMONSTRATION SCHOOL

In connection with the courses in Commercial Education in secondary schools, a Demonstration School is maintained during the entire session. The students in this school are selected from high school students who have had no training in the commercial subjects in which they are to be instructed. These students are organized into a large number of small classes, each class having its own room and special equipment. Two members chosen from the methods courses are assigned to each class for the six weeks, each teaching on alternate days and observing on the other days. This arrangement gives each member of a methods course fifteen hours of supervised teaching and fifteen hours of observation. The instructors in charge of the methods courses supervise each class daily. No auditors are admitted to the demonstration classes.

The enrollment in each methods course is limited to twenty. All persons, therefore, who desire to enroll in any methods course should send their applications to the Recorder of the Faculties as soon as possible, using the application form at the back of this bulletin. All applications for admission to the methods courses will be accepted subject to the applicant passing an examination to test his knowledge of the subject matter which he will teach in the demonstration class. The prerequisites given with the description of each course will indicate the extent of this examination. Early application is necessary to insure enrollment. When the maximum enrollment has been reached further applicants will be notified.

A special announcement has been prepared for the information of high school students who desire to enroll in the demonstration classes. Full information will be sent upon application to the Dean of the Summer Session, California Hall, Berkeley, California.

S301A. Methods of Teaching Elementary Stenography. (CARMAN)

Principles of Gregg shorthand. Study of texts on methods; thorough drill in blackboard presentation of important lessons in the manual. Discussion of vocalization, penmanship drills, assignment and preparation, sight-reading, plate-writing, reviews, tests, and grading. Class limited to twenty. Prerequisite: a knowledge of the theory of Gregg shorthand. 2 units.

M Tu W Th F, 11. Demonstration classes: Sec. 1, 9; Sec. 2, 10.

S301b. Methods of Teaching Elementary Typing.'

(SPARKS)

Methods used in the first year of a two-year high school course in typing. Each lesson will be planned and presented by both the supervisor and the student teachers. Parts of the machine, finger gymnastics, exercises in mental control, use of the phonograph, standards of work, equipment, and department organization. Class limited to twenty. Prerequisite: a knowledge of the theory of touch typing and an ability to write by touch accurately. 2 units.

M Tu W Th F, 1. Demonstration classes: Sec. 2, 9; Sec. 1, 10.

S301c. Methods of Teaching Advanced Stenography.

(SULLIVAN)

Rapid review of the theory of Gregg shorthand; advanced phrasing and word-signs; special speed penmanship drills; reading and writing difficult plates; dictation and transcription of business letters and technical matter. Methods of dictation, and sources of dictation material. Assignment and preparation of lessons, tests, and records. Class limited to twenty. Prerequisite: a knowledge of the theory of Gregg shorthand and an ability to transcribe business letters dictated at sixty words a minute for ten minutes. 2 units.

M Tu W Th F, 11. Demonstration classes: Sec. 1, 9; Sec. 2, 10.

S301d. Methods of Teaching Advanced Typing.

(OTTO)

Study of technique necessary for maximum accuracy and speed. Rhythm, finger gymnastics, and concert drills. Relation of class to individual instruction. The daily assignment. Standard business forms, including tabulations. Use of displays and form-books in teaching artistic and business-like arrangement. Speed tests and their psychological value. Care of the typewriter. Methods of handling classes for doing practical work. Special methods for mimeograph instruction. 2 units.

M Tu W Th F, 1. Demonstration classes: Sec. 2, 9; Sec. 1, 10.

S300c. Methods of Teaching Commercial Arithmetic.

(KIRKER)

Methods of teaching accuracy, rapidity, and neatness in the handling of numbers. Special attention given to the practical parts of arithmetic such as fractions, measurements, percentage, commission, billing, insurance, interest, discounts, bonds, taxes, etc. Drills in rapid calculation will be given throughout the session. The student's knowledge of the subject will be tested by frequent examinations. Prerequisite: a knowledge of business arithmetic. 2 units.

M Tu W Th F, 4. Demonstration classes: Sec. 1, 2; Sec. 2, 3.

S300B. Methods of Teaching Elementary Bookkeeping. (KIRKER)

Various methods of teaching bookkeeping and discussion of the relative merits of the material available for the teachers' use. Fundamental principles. Study of debits and credits. Ruling. Open accounts. Sets using Journal, Ledger, and Statement Book. Posting. Trial balance. Correction of errors. Statements. Closing the ledger. Sets introducing the Cash Book, Purchase Book, Sales Book, and business practice. Examinations will be given at stated periods throughout the course. Prerequisite: a knowledge of the principles of debit and credit and the preparation of simple operating and financial statements. 2 units.

M Tu W Th F, 1. Demonstration classes: Sec. 1, 2; Sec. 2, 3.

S302. Methods of Teaching Retail Store Service. (SMALL)

Problems of teaching and handling students in retail store selling intended particularly for teachers of store selling in high school classes, part-time classes and prospective educational directors. Teaching store system, store mathematics, merchandise knowledge, retail store service, and general school subjects to store employees. Lesson plans and courses of study for different classes of store employees. Actual teaching experience will be provided in the laboratory period. Only people who have had store experience and actual teaching experience or sufficient general educational experience will be accepted. Concurrent store experience and the taking of Office Practice 10 (Store Service Training) is recommended. 2 units.

M Tu W Th F, 11. Laboratory, 9-11 daily in Oakland.

CONFERENCE ON HIGH SCHOOL BOOKKEEPING

For the purpose of stimulating and directing a careful study of the problems of teaching bookkeeping in the secondary schools, a series of weekly roundtable conferences on bookkeeping in the high schools will be held during the Summer Session. The aim of the conference is to help and direct high school teachers during the coming school year in making a critical study of the content and methods of teaching bookkeeping. The conference will suggest fields for study, outline methods and directions for conducting studies, and prepare plans for the next conference in 1921.

The problems tentatively selected for discussion include: The objects of the bookkeeping course in the high school; bookkeeping as an introduction to business management and organization; the relation of the course in the high school to local business methods and needs; book-

keeping for rural high schools; bookkeeping in the large commercial centers; coöperative part-time work for advanced students; keeping school accounts by bookkeeping students for school credit; adding, calculating and bookkeeping machines in the bookkeeping classes; organization of bookkeeping instruction for daily class instruction; critical evaluation of current bookkeeping material; use of school currency, paper commodities, and business practice material in teaching; amount of arithmetical computations necessary in the bookkeeping class.

Members of the University and Summer Session faculties will preside over the meetings. The time and place for each meeting will be announced later.

OFFICE PRACTICE

Note.—The courses lettered A-D may be used for matriculation credit; university credit for these courses towards a degree will be granted only to candidates for the bachelor's degree in the College of Commerce or to prospective teachers of commercial work in a secondary school.

The courses lettered G-J are high school subjects not on the university preparatory list.

University credit towards a degree will not be given for these courses; except that candidates for a high school teacher's certificate may include those courses which are directly connected with the candidate's majors. The hour value given each course is considered only in ascertaining the amount of work for which the student is registering in the Summer Session.

A. Elementary Stenography.

(BARKER)

Fundamental principles of Gregg shorthand. The first half of the manual; penmanship drills and supplementary work. Students should be able to take simple graded dictation at the rate of seventy-five words a minute at the conclusion of the course. 2 hours daily; 4 hours preparation. 4 units.

M Tu W Th F, 1 and 3.

B. Intermediate Stenography.

(SULLIVAN)

Review of the theory covered in course A; last half of the manual. Beginning speed dictation; special vocabularies; letters and business forms. Prerequisite: course A or its equivalent. 2 hours daily 4 hours preparation. 4 units.

M Tu W Th F, 2 and 4.

C. Elementary Typing.

(BARKER, ———)

A rapid development of a thorough command of the keyboard through finger gymnastics, exercises for mental control, and intensive drills in fingering and rhythm. Correct position, the various mechanical devices, and care of the machine. 1 hour class drill and 1 hour supervised practice daily. Laboratory fee, \$1.50. 1 unit.

M Tu W Th F, Sec. 1, 8; Sec. 2, 9; Sec. 3, 10. Practice hour to be arranged in the afternoon only.

D. Intermediate Typing.

(OTTO)

Intensive development of skill based on principles developed by typewriter speed experts and adapted to school conditions. Detailed study and application in class and individual work: correct position and technique; rhythm; independent finger control, hand gymnastics and proper use of the phonograph in school work. The laws of applied art governing the artistic arrangement of typewritten material, with special reference to simple commercial forms. Designed to furnish typists and those intending to teach with first-hand knowledge of skill. Prerequisite: mastery of the keyboard by touch method. 1 hour class work and 1 hour supervised practice daily. Laboratory fee, \$1.50. 1 unit.

M Tu W Th F, 11. Practice hour to be arranged in the afternoon only.

G. Penmanship.

(SLINKER)

Zaner method, which is used throughout the State of California.

Emphasis upon blackboard work. First week: position and movement; second week: application of movement and form to letters, words and figures; third week: capital and small letters; fourth week: application of movement and form to sentence writing; fifth week: alphabetical word and sentence work; sixth week: page work, commercial forms, and instruction in "scaling" writing. 1 hour.

M Tu W Th F, Sec. 1, 8; Sec. 2, 9; Sec. 3, 10; Sec. 4, 11.

H. Commercial Arithmetic.

(KIRKER)

A concise course in the handling of numbers accurately and rapidly. Fundamental processes; daily drills in rapid calculation; exercises and problems from business transactions; statistical problems and the use of graphs. 1 hour.

M Tu W Th F, 11.

I. Business Procedure.

(BARNHART)

An introduction to business practices and procedure, intended to acquaint the student with the facilities and services offered by business organizations, and the accepted method of using these services. The practices of merchandising, selling, telegraph, telephone, banking, railroad, express, and business information organizations will be explained and the papers commonly used will be filled out and studied. Possibilities of utilizing this information in bookkeeping, office practice, and part-time classes will be discussed. 2 hours.

M Tu W Th F, 10.

J. Store Service Training.

(SMALL)

An introductory study of the field of store service training intended for teachers of store training, in high school classes, part-time classes and prospective educational directors. Store organization, sales-check systems, store merchandise, store services, selling, and handling customers and salespeople. Observation of selling practices; selling in the stores of San Francisco and Oakland will be required of those who have not had store selling experience amounting to at least one month. This course with enough selling experience can be counted towards meeting the requirements of the Federal Board of Vocational Education for a teacher's certificate in salesmanship under the provisions of the Smith-Hughes act. 2 hours.

M Tu W Th F, 8.

DRAWING

ROSS J. BROWER, B.S., Instructor in Drawing.

MELTON V. MOWBRAY, Jr., B.S., Instructor in Drawing.

C. Instrumental Drawing.

(MOWBRAY)

Use of instruments, solving of geometrical problems, construction of mathematical curves, and lettering. Satisfies the requirement in matriculation subject 6b (but with a credit of 2 units). 2 units.

Tu W Th F, 1-4; lectures at 1.

E. Advanced Mechanical Drawing.

(MOWBRAY)

Special work in advanced drawing as given in the high schools; problems will be selected to suit the individual needs of the pupils.

Prerequisite: Instrumental Drawing. 2 units.

M F, 1-4; lectures at 3.

S3. Descriptive Geometry.

(BROWER)

Individual work covering the subject matter of the courses 3A, 3B, 3C, or 3D, according to individual needs of the pupils. Prerequisite: Instrumental Drawing. 2 or 3 units according to the work done.

Tu W Th F, 9-12; lectures at 9.

S9. Lettering.

(BROWER)

Straight line lettering; historical styles; construction of titles. 1 unit.

M W F, 9-12; lectures, W, 11.

S101. Course for Teachers.

(MOWBRAY)

A presentation of the subject matter and methods of teaching instrumental and mechanical drawing in the secondary schools. For credit the student must make a notebook, complete the required readings, attend the lectures in courses C, E, and S9, and make about twelve drawings. 1 unit.

Tu Th, 3.

S105. Graphostatics.

(BROWER)

Graphical analysis of stresses in engineering structures. Prerequisite: Instrumental Drawing and Physics. 1 unit.

Tu Th F, 11.

ECONOMICS

STUART DAGGETT, Ph.D., Professor of Economics on the Flood Foundation.

GEORGE ERNEST BARNETT, Ph.D., Professor of Statistics, Johns Hopkins University.

GEORGE B. MANGOLD, Ph.D., Director, Missouri School of Social Economy, St. Louis.

JOHN COLLIER, Director of Americanization and Community Institutes, Extension Division.

ELIOT JONES, Ph.D., Associate Professor of Economics, Leland Stanford Junior University.

JOHN BENNET CANNING, Ph.B., Assistant Professor of Economics, Leland Stanford Junior University.

R. JUSTIN MILLER, J.D., Assistant Executive Officer, State Commission of Immigration and Housing.

ELBERT A. KINCAID, M.A., Instructor in Economics.

FRANCES M. GREENE, M.D., Field Supervisor in Training Course for Community Workers, Associated Charities, San Francisco.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S1A. Principles of Economics. (CANNING)

An introductory study of the principles of Economics, touching such fundamental theories as those of value, rent, wages, interest and profit, but emphasizing current economic problems. 2 units.

M Tu W Th F, 10.

S3A. Introduction to Economic Geography. (KINCAID)

The relations between geography and economics. Prerequisite: Geography 1A. 2 units.

M Tu W Th F, 8.

S110. Economic History. (CANNING)

A general survey of some of the most important events in the economic history of the world. 2 units.

M Tu W Th F, 11.

S123. Markets and Marketing. (KINCAID)

The organization of existing markets and the methods of marketing representative California agricultural products. This course affords a foundation for work in Rural Institutions 201 (College of Agriculture). 2 units.

M Tu W Th F, 9.

S200A. Economic Seminar.

(DAGGETT)

Students will work on selected problems in railway transportation, such as questions of government control, railway history, railway rates and other topics. 2 units.

Tu Th, 3-5.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S1A. Principles of Economics.

(JONES)

A continuation of Course S1A as given in the Interession; S1A is, however, not prerequisite. A study of the principles of economics beginning with Distribution. 2 units.

M Tu W Th F, 8.

S150. Labor Legislation.

(BARNETT)

The theory and principles of labor legislation. A study of such problems as the minimum wage, hours of labor, workingmen's insurance, and strike control legislation. 2 units.

M Tu W Th F, 9.

S151. Labor Organizations.

(BARNETT)

The history, government, functions and methods of labor organizations with special reference to American forms. 2 units.

M Tu W Th F, 11.

192A. Child Welfare.

(MANGOLD)

Problems of infant mortality, protection from disease, the playground movement, child labor problems, juvenile delinquency, measures of child protection and the care of the dependent and neglected child, and the social aspects of education. Field work open only on consent of instructor. 2 units.

M Tu W Th F, 11.

195A. Constructive Social Work.

(MANGOLD)

The improvement of social and living conditions through public and private effort in connection with accidents, disease, individual and social inefficiency, housing reform, savings, thrift, industrial insurance and the social service of religious organizations. Field work open only on consent of instructor. 2 units.

M Tu W Th F, 10.

S200B. Economic Seminar.

(JONES)

A continuation of S200A as given in the Interession; S200A is, however, not prerequisite.

Tu Th, 3-5.

AMERICANIZATION

52. The Problem of Immigration, with Especial Reference to Americanization and Race Assimilation. (COLLIER, MILLER)

The history of emigration to the United States; statistics of immigration; legislation affecting immigration; immigrant heritage—social and political backgrounds; the immigrant in agriculture, industry, practical politics, and in relation to the courts; the distribution of immigration; Americanization of immigrants; California state effort in dealing with immigrants; Asiatic immigration, and the adult immigrant as an embodiment of certain educational problems. 2 units.

M Tu W Th F, 3.

89. Community Organization and Community Service. (COLLIER, MILLER)

The history of the community movement, from Robert Owen to our own day; discussion of the conditions which necessitate community organization; community organization for recreation, education, civic action, and the improvement of living conditions; analysis of types of community organization: coöperation in Belgium, Russia, Denmark, Ireland; the American coöperative movement; the grange and farm bureau; the school community center; the community council; the social unit; the reorganization of governmental services making possible an enlarged citizen participation in government; educational and social developments of the labor movement; the Workers' Educational Association and other movements for self-education of the masses; the methods by which the church, the school, the departments of health, housing, corrections, etc., can render mutual aid and provide civic leadership for the people. 2 units.

M Tu W Th F, 2.

While courses 52 and 89 are separate, they are designed together to cover, so far as is possible in six weeks, the subjects of the immigrant and others in the community, and the interrelationship of social agencies in a democratic community.

Students will be given the secondary certificate entitling them to teach Americanization in the schools of California, both secondary and primary, provided they pass successfully the two courses given by Mr. Collier and Mr. Miller, and provided they also complete one of the following courses: Agriculture S103, S105; Economics 192A, 195A; Education 151, 115, 178, 260; History S174; Philosophy S101, 155; Political Science S108.

SCHOOL OF EDUCATION

WILLIAM WEBB KEMP, Ph.D., Professor of School Administration.

ERNEST C. MOORE, Ph.D., Director, Southern Branch of the University of California.

HARRY BRUCE WILSON, LL.D., Superintendent of Schools, Berkeley, Calif.

VIRGIL E. DICKSON, Ph.D., Assistant Superintendent of Schools and Director of Research, Berkeley and Oakland School Departments.

RICHARD S. FRENCH, Ph.D., Assistant Professor of Education.

WILLIAM JOHN COOPER, M.A., Superintendent of Schools, Piedmont, Calif.

EDWIN A. LEE, M.A., Professor of Vocational Education, Indiana University.

ETHEL I. SALISBURY, M.A., Director of Kindergarten and Elementary Schools, Berkeley, Calif.

HERBERT FRANCIS EVANS, Ph.D., Professor of Religious Education, Pacific School of Theology.

JOHN SIEGFRIED BOLIN, M.A., Instructor in Education.

DAISY ALFORD HETHERINGTON, M.A., Director of the Play School in the Summer Session.

OLIVE M. WILSON DOBRETT, Instructor in Education in the Summer Session.

JANE J. POULSEN, M.A., John Muir Intermediate School, Pasadena.

LEORA HOUGHTON, Instructor in the Play School in the Summer Session.

MAUDE WILDER, A.B., Recreation Department, Oakland.

ANDREW P. HILL, Jr., A.B., Director of Industrial Education, San Francisco Elementary Schools.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S102. The History of American Education. (BOLIN)

An historical study of the leading ideas and ideals of American education and of the institutions in which they have been embodied. 2 units.

M Tu W Th F, 10.

S142. Present-Day Movements in Education. (BOLIN)

A descriptive and critical study of some of the more important present-day tendencies in American education with special reference to the problems involved. 2 units.

M Tu W Th F, 11.

S298. Special Studies.**(FRENCH)**

Present day problems in educational research. Seminar method. Work will be accepted as of seminar type upon the recommendation of the instructor. Class session, M, 7:30-9:30. Room 111 Library. Weekly consultations with instructor required. 1 or 2 units.

S299. Thesis Course.**(FRENCH)**

Consultations by appointment only.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

THE PLAY SCHOOL

The Play School Staff: Mrs. HETHERINGTON, Mrs. DORRETT, Miss POULSEN, Miss HOUGHTON, Miss WILDER, Mr. HILL, and others.

THE DEMONSTRATION

The Play School will be conducted as a demonstration of the organization, materials, activities and methods involved in uniting, within one school organization, the spontaneous play life of the child, together with his need and desire for leadership and society's demands that he be instructed. It is an effort to solve elementary educational problems by harmonizing the extra-home educational experiences of the child by combining in one institution, in the spirit of education, the functions of the play center and the functions of the school; hence, the term "Play School." Further, the plan unites in this larger school idea the many new successful educational experiments that have arisen with modern social changes. Therefore, the Play School may be defined as an outdoor or fresh air play-center and school combined, where the teacher's interest is centered in the children and their activities, not in mere subjects of study, and where the educational efforts, including the moral and social phases, are put on a basis of practical living experience radiating into the whole environment, and where the children are considered both as free active agents and also immature social creatures requiring social control and discipline. The plan covers the ages from early infancy to the adolescent period. Instead of teaching subjects, activities are organized out of which subjects develop, as they have in racial history. The activities organized are the natural, more or less distinct, phases of the child's complete life. The usual school subjects develop as phases of these activities.

THE CHILDREN

On account of local conditions the demonstration will be confined to the ages from four to eleven years. A fee of \$5 will be charged for each child. This fee may be paid in advance to the Comptroller of the University of California and a receipt taken. This receipt must be presented or the fee paid at the gate of the Play School Center on the first morning of the Summer Session. Parents from a distance should make their applications early, as the enrollment is limited to three hundred children. Attendance must be regular, or the child will be dropped. Girls are required to wear bloomers. Parents are welcome to visit the school at all times, but must in no way make their presence felt by the children.

16. Organization and Leadership in the Activities of Children under Six Years. (———)

The lectures and discussions will explain the work demonstrated in the Play School. 1 unit.

M W F, 1.

18A. Rhythmic Activities. (DORRETT)

Practical song games for developing locomotion and body rhythms; material for rhythmic drawing, writing, and paper tearing; material best adapted to the different age periods. In addition to the regular class meetings, there will be required at least six hours per week of outside study. 1 unit.

Tu Th, 2.

18B. Musical Activities. (DORRETT)

Methods of teaching the language of music to the different age periods, under present school-room conditions, using the play impulse: (1) the development of tonality; (2) the development of note values; (3) method of securing original music story-writing without the consciousness of effort or technicalities. 1 unit.

M W F, 2.

Note.—Courses 18A and 18B should be taken together.

21. Nature Study and Physical Experimentation in the Elementary School. (POULSEN)

Lectures, readings and discussions. The lectures and class discussions will be based upon the work in the Play School. 1 unit.

M W F, 2.

22. Manual Activities for Elementary Grades.

(HILL)

A portion of the time will be devoted to practical work on models.

Discussions of the practical work as conducted in the Play School.
1 unit.

M W F, 5.

31. Observational Leadership or Practice Teaching.

(HETHERINGTON and STAFF)

Students observing two hours daily throughout the session will receive 2 units, those observing one hour daily throughout the session will receive 1 unit of credit. Two written reports based upon suggested problems will be required, one at the end of the third week and one at the close of the term. Students taking this course for credit must also enroll in one of the following courses: Education 132, Education 134, Education 16.

M Tu W Th F, 9-12. Play School Center.

132. The Foundations of Method.

(HETHERINGTON)

Lectures and class discussions on the fundamental principles of method. The latter part of the course will be devoted to analysis and criticism of the practical class work being done in the Play School. Special attention will be given to reading, arithmetic, composition and geography. The Play School leaders will participate in the discussions of their subjects. 1 unit.

M W F, 4.

132A. Methods of Teaching Geography in the Elementary Grades.

(REYNOLDS)

Lectures and discussions. Demonstrations in the Play School and observation of Play School activities. 1 unit.

M W F, 8.

HISTORY AND PRINCIPLES OF EDUCATION**S101. The History of Education.**

(BOLIN)

The development of educational thought and practice from primitive times to the present, with special emphasis on the modern periods, viewed as a phase of social progress. 2 units.

M Tu W Th F, 8.

104. The History of Secondary Education.

(BOLIN)

The evolution of the meaning of a liberal education in modern times and its influence on present-day problems of secondary education. 2 units.

M Tu W Th F, 9.

106. **Principles and Organization of Religious Education.** (EVANS)
This course provides a general introduction to the field of religious education. The religious life and its place in human development are defined, and the aim of religious education is made clear. The neighboring fields of psychology and education are investigated to discover their contributions to the subject. The moral and religious development of the growing child is considered genetically, and examination is made of available material to determine its value in the various stages of child life. Special attention will be given to the organization of the modern graded church school, week day instruction and recent accredited Bible study plans. 2 units.
M Tu W Th F, 9.
115. **The School as a Social Institution.** (WILSON)
(See Reconstruction for description of course.)
M Tu W Th F, 9.

ADMINISTRATION

119. **Mental Testing and School Administration.** (DICKSON)
(See Educational Psychology for description of course.) 2 units.
M Tu W Th F, 2.
- S122a. **Secondary Education.** (COOPER)
(See Secondary Education for description of course.)
M Tu W Th F, 11.
150. **Junior High School Problems.** (WILSON)
(See Secondary Education for description of this course.) 2 units.
M Tu W Th F, 10.
151. **School Administration in State and City.** (MOORE)
Contemporary methods and problems. Lectures, prescribed readings and essays. 2 units.
M Tu W Th F, 10.
- S201. **Public Administration of School Systems. Seminar.** (KEMP)
Admission only on consultation with the instructor. 2 units.
Sec. 1, M Th, 4-6; Sec. 2, Tu F, 4-6.
260. **Problems in Vocational Education.** (LEE)
(See Vocational Education for description of course). 2 units.
M Tu W Th F, 1.
261. **Part-Time Education.** (LEE)
(See Vocational Education for description of course.) 2 units.
M Tu W Th F, 3.

S298. Special Studies.**(FRENCH)**

Present day problems in educational research. Seminar method. Work will be accepted as of seminar type upon the recommendation of the instructor. Class session, M, 7:30-9:30. Room 111 Library. Weekly consultations with instructor required. 1 or 2 units.

S299. Thesis Course.**(FRENCH)**

Consultations by appointment only.

RECONSTRUCTION**115. The School as a Social Institution.****(WILSON)**

Essentials in socializing the public schools; responsibility of the school principal and the superintendent of schools. 2 units.

M Tu W Th F, 9.

178. Training for Citizenship.**(COOPER)**

A course covering the new methods of civics teaching and the possibilities and methods of thrift work and Americanization work in the schools. 2 units.

M Tu W Th F, 3.

Attention is called to the courses in Americanization announced in the Department of Economics.

EDUCATIONAL PSYCHOLOGY**118. Mental Testing of School Children.****(DICKSON)**

The object of this course is to develop skill in giving and scoring tests. A few of the best standardized individual tests and group tests will be used.

Open to teachers and to senior or graduate students, after conference with instructor. 2 units.

M Tu W Th F, 4.

119. Mental Testing and School Administration.**(DICKSON)**

The object of this course is to reveal the use of mental tests in the classification, promotion, and guidance of pupils in elementary and high schools. The various administrative schemes that are most practical will be considered.

Open, after conference with instructor, to superintendents, principals, supervisors, vocational counsellors, and those entrusted with large powers of classification and guidance of pupils. 2 units.

M Tu W Th F, 2.

ELEMENTARY EDUCATION

- 132. The Foundations of Method.** (HETHERINGTON)
(See Play School for description of course.) 2 units.
M W F, 4.
- 132A. Methods of Teaching Geography in the Elementary Grades.** (REYNOLDS)
(For description of course see announcement under Play School.)
M W F, 8. 1 unit.
- 133. How to Study, and Teaching Others How to Study.** (MOORE)
What learning is and how it can be assisted. A course which attempts to find out what the teacher should do in the teaching of the several elementary subjects. 2 units.
M Tu W Th F, 11.
- 134. Supervision.** (SALISBURY)
Its four main functions, with special emphasis on that of improving the class room instruction. This includes the application of standards to the recitation and a study of the procedure based on the principles of constructive supervision. Open only to experienced teachers. 2 units.
M Tu W Th F, 9.
- 135. Curricula Making.** (SALISBURY)
Organization of committees for effective service. Planning a course. Providing for teacher helps. Economy of time. Flexibility with definiteness. Standardization of materials. Selection and organization of subject matter. Standards of attainment. Bibliographies. Open only to experienced teachers. 2 units.
M Tu W Th F, 8.

SECONDARY EDUCATION

- S122a. Secondary Education.** (COOPER)
Lectures and discussions for advanced students and teachers, especially those studying for the high school credential. General survey with particular emphasis on the following topics: social demands for secondary education and resulting institutions in foreign countries and America; changing social needs evidenced in recent demands for reorganization of secondary schools, together with consideration of types suggested; consideration of these types in the light of (1) physical and mental traits of pupils, and (2) urgent social needs; socialization of the curriculum. 2 units.
M Tu W Th F, 11.

150. Junior High School Problems.**(WILSON)**

A consideration of the characteristics of pre-adolescent children, and the objectives, the curriculum, and the methods of teaching, discipline, and administration appropriate to the Junior High School. Lectures, readings, and class discussion.

M Tu W Th F, 10.

260. Problems in Vocational Education.**(LEE)**

This course is primarily for directors of vocational education, principals of vocational schools, superintendents and others interested in vocational education. Current problems will be considered. Lectures, discussions and assigned readings. Admission only on consultation with instructor. 2 units.

M Tu W Th F, 1.

261. Part-Time Education.**(LEE)**

This course will include consideration of the history and development of part-time education, a study of the compulsory part-time laws of the various states, and a detailed study of the new compulsory law of California. Admission only on consultation with instructor. 2 units.

M Tu W Th F, 3.

ENGLISH

KARL YOUNG, Ph.D., Professor of English, University of Wisconsin.
PERCY H. BOYNTON, A.M., Professor of English, University of Chicago.
WALTER B. PITKIN, A.B., Professor of Journalism, Columbia University.
ODELL SHEPARD, Ph.D., Goodwin Professor of English, Trinity College.
ELIAS O. JAMES, A.M., Associate Professor of English, Mills College.
THOMAS F. SANFORD, A.B., Associate Professor of English.
ROBERT W. GORDON, A.M., Assistant Professor of English Composition.
CLAIRE SOULÉ SEAY, A.B., Instructor in English, Marlborough School for Girls, Los Angeles.
CHARLES H. RAYMOND, A.B., Instructor in English in Business Practice.
CARRYL N. THURBER, A.M., Instructor in English in the Summer Session.

INTERSESSION COURSES

(May 10 to June 19, 1920)

- S1A. Oral and Written Composition.** (JAMES)
Expository writing, with class discussions, and analysis of representative essays; appointments for individual criticism. 2 units.
M Tu W Th F, 3.
- S1C. English in Business Practice.** (RAYMOND)
A course in the writing of effective English as applied especially to business correspondence. Practice in the composition of different kinds of letters. Methods for attracting attention, holding interest, following up prospects, and closing transactions. Courtesy, tact, and force in letter-writing. 2 units.
M Tu W Th F, 9.
- S106. Narration.** (JAMES)
Practice in descriptive and narrative writing, with analysis of masterpieces. Lectures on the technique of narration and description, with special attention to the short-story. Appointments for individual criticism. 2 units.
M Tu W Th F, 2.
- Notes.**—Students who desire to enter this course should communicate before the opening of the session with Professor James at Mills College, California.

S102A. History of English Literature.

(GORDON)

Lectures and collateral reading covering the principal periods and movements from the beginnings to 1700. This course will be continued as S102B in the Summer Session. Either course may be taken separately. 2 units.

M Tu W Th F, 8.

S114. The Elizabethan Dramatists.

(SANFORD)

Lectures on the English dramatists from Marlowe to Shirley. Collateral reading. 2 units.

M Tu W Th F, 11.

126. Wordsworth.

(SANFORD)

Lectures and collateral reading. 2 units.

M Tu W Th F, 10.

S219A. Seminar in Eighteenth Century Poetry.

(GORDON)

Investigation and reports on special topics. Direction of research.

Class discussions and personal conferences. Prerequisites: graduate standing and the consent of the instructor. 2 units.

Tu Th, 3-5 (with a fifth hour for conferences).

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S1A. Oral and Written Composition.

(THURBER)

Expository writing, with class discussions, and analysis of representative essays. 2 units.

M Tu W Th F, 9.

S1C. English in Business Practice.

(THURBER)

A course in the writing of effective English as applied especially to business correspondence. Practice in the composition of different kinds of letters. Methods for attracting attention, holding interest, following up prospects, and closing transactions. Courtesy, tact, and force in letter-writing. 2 units.

M Tu W Th F, 8.

S6B. Elementary Narrative.

(SHEPARD)

Each member of the class will write at least three pieces of extended narrative in addition to numerous shorter exercises in the several elements of the narrative art. These materials will be submitted to the class for oral discussion and written criticism. A collection

of standard short-stories will be used for critical study and analysis. Lectures upon the history and technique of the short-story, with special emphasis upon contemporary tendencies and writers. Frequent individual conferences. 2 units.

M Tu W Th F, 8.

S102a. History of English Literature. (GORDON)

Lectures and collateral reading covering the principal periods and movements in English literature from 1700 to 1900. 2 units.

M Tu W Th F, 8.

S106H. Practical English for Teachers. (SEAY)

A discussion for teachers of all subjects, of the principles of effective expression; practical exercises, oral and written. 2 units.

M Tu W Th F, 10.

S106g. Advanced Narrative. (PITKIN)

At least two stories of over 6000 words will be written during the session by each student. Pitkin's "The Art and Business of the Short Story" will be used as a text. Particular attention will be paid to the needs of the individual students and to the commercial aspects of story writing. 2 units.

M Tu W Th F, 2.

Note.—This course will be limited to twenty-five students, selected on the basis of manuscripts submitted or of stories accepted and published in any standard magazine. All manuscripts or printed stories must be received at the office of the Summer Session, California Hall, Berkeley, not later than May 15, 1920.

S117. Shakespeare. (YOUNG)

An introductory course. Lectures, written reports, and class discussions. The lectures will survey Shakespeare's work as a whole. One comedy, one tragedy, and one history play will be studied in detail in class. 2 units.

M Tu W Th F, 3.

S130. American Literature, 1835-1892. (BOYNTON)

A survey course compassing the careers of the major New England group, and considering the parallel contributions of the metropolitan, southern, and western writers, the chief emphasis being laid on history rather than on aesthetics. 2 units.

M Tu W Th F, 10.

133. Studies in the History of the American Theatre. (BOYNTON)

A series of studies in the development of the American theatre as an institution from the middle of the eighteenth century to the present time. 2 units.

M Tu W Th F, 11.

S145. The Romantic Movement. (SHEPARD)

Assigned readings from the major works of the literary movement in England. The Romantic Movement in its international ramifications; its effects upon critical theory, philosophic thought, and standards of conduct. 2 units.

M Tu W Th F, 9.

S155. The High School Course in English. (SEAY)

The principles underlying a high school course in English and their application to practical class-room problems. The following topics will be considered: the making of a course of study for different types of schools and different kinds of communities; practical suggestions as to presentation of courses; elective courses, their value; composition; possibilities of oral English; correlation of English with other subjects of the curriculum; school activities in their relation to English teaching; responsibility of the English teacher for reading. 2 units.

M Tu W Th F, 9.

S217. Seminar in Shakespeare. (YOUNG)

Independent study of Shakespearean problems. Literary criticism, sources and analogues, staging and stage history. Open to all graduate students. 2 units.

Tu Th, 4-6.

S219B. Seminar in Eighteenth Century Prose. (GORDON)

Investigation and reports on special topics. Direction of research. Class discussions and personal conferences. Prerequisites: graduate standing and the consent of the instructor. 2 units.

Tu Th, 4-6 (with a fifth hour for conferences).

FRENCH

RICHARD T. HOLBROOK, Ph.D., Professor of French.

A. CÉCILE RÉAU, C.A.L., Professor of French, Mills College.

PERCIVAL B. FAY, Ph.D., Assistant Professor of French.

ALFRED SOLOMON, M.A., Assistant Professor of French.

LOUIS BARNIER, A.B., Instructor in French.

KATHARINE SMITH TURNER, B.L., Instructor in French in the Summer Session.

INTERSESSION COURSES

(May 10 to June 19, 1920)

A. Elements of French (Double Course).

(BARNIER)

For beginners. Essentials of grammar, pronunciation, reading, conversation. Satisfactory completion of this course will give credit for matriculation subject 5c¹, provided the student has had no university course in French. 4 units.

M Tu W Th F, 8-10.

E. Composition and Conversation.

(FAY)

Practice in hearing, speaking, and writing French. Designed for those who have had one year of university French or its equivalent. 2 units.

M Tu W Th F, 9.

S212A. Political and Social History of the French Language.

(FAY)

The spread of the Latin language in France; its adoption in the ninth and tenth centuries as a medium for literary, legal, and other expression; the transition to the French dialects; the triumph and for matriculation subject 5c¹, provided the student has had no survival of standard French. Reading of selections of Old French prose. An introduction to historical grammar; see S212B. 2 units.

M Tu W Th F, 10.

S299. Thesis Writing.

(FAY)

Hours to be arranged. No credit.

SUMMER SESSION COURSES*(June 21 to July 31, 1920)***A. Elements of French (Double Course). (TURNER, SOLOMON)**

For beginners. Essentials of grammar, conversation. Satisfactory completion of this course will give credit for matriculation subject 5c¹, provided the student has had no university course in French. 4 units.

M Tu W Th F: Sec. 1, 8-10; Sec. 2, 10-12.

B. Advanced Elementary French. (RÉAU)

Careful drill in pronunciation. General review of grammar, with idioms, composition, reading, conversation. Prerequisite: the elements of French. Satisfactory completion of courses A and B will give credit for matriculation subject 5c². 2 units.

M Tu W Th F, 8.

E. Composition and Conversation. (SOLOMON)

Practice in hearing, speaking, and writing French. Designed for those who have had one year of university French or its equivalent. 2 units.

M Tu W Th F, 9.

125. The French Drama and Comedy of the 19th and 20th Centuries.**(RÉAU)**

Reading aloud with special emphasis on the dramatic character of the text. Systematic discussions and conversations about the plays read.

M W F, 9.

S117. Problems of Teaching French. (HOLBROOK)

Review of French grammar (forms, pronunciation, and syntax); lectures on methods of teaching French, pedagogical bibliography, and suggestions regarding available text-books. 2 units.

M Tu W Th F, 2.

S212B. Historical French Grammar. (HOLBROOK)

An outline of the development of the French language from the early middle ages to the present. A continuation of S212A. 2 units.

M Tu W Th F, 3.

GEOGRAPHY

MARK JEFFERSON, M.A., Professor of Geography, State Normal College
Ypsilanti, Michigan.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

160. The A B C Countries and Latin America. (JEFFERSON)

The background is Latin America, long populated by a race of Creoles—New World offspring of Spaniards or Portuguese—with universal but variable admixture of Indian blood, and alongside these a race of native Indians, in places outnumbering the Creoles. The Indians were preserved as a working class, though individuals emerge, and usually have something of Latin culture.

The Argentine Republic, Chile, and Brazil are treated in especial detail as the most important Creole countries. Attention will be called to the modern recolonizing with wholly European families, which Professor Jefferson has recently examined on the ground.
2 units.

M Tu W Th F, 9.

165. Europe in 1920. (JEFFERSON)

A sketch of the historical and physical geography of the northern plains of Europe makes it clear that they invite capable nations to grow in wealth and power on them and to compete for territory. Main attention is given to the countries that fought the Great War and those that emerged from it, with geographic hopes and fears for the future. A country is regarded as a group of people under one government taken together with the portion of the earth from which these people draw their sustenance. The items to be set forth are the numbers, culture and kind of people, the area, climate and products of their lands and the relations between land and people. The material now available for teaching the geography of these countries in schools will be presented.
2 units.

M Tu W Th F, 10.

GERMAN

FRANKLYN SCHNEIDER, Ph.D., Instructor in German.

LAWRENCE M. PRICE, Ph.D., Instructor in German.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

The courses listed below cover slightly less ground than the corresponding courses in the regular session of the University. Nevertheless, especially proficient Summer Session students will be admitted into the next higher courses of the University in regular session. For other students brief correspondence courses have been prepared which will bridge the gap between the Summer Session courses and the next higher courses of the regular session.

For course AB there is no prerequisite. The prerequisite for CD is the completion of a semester's work in the University or two years of German in the high school, or matriculation subject 5b².

AB. The Elements of German (Double Course). (PRICE)

For beginners. Essentials of grammar, reading, conversation. Zinnecker's "Deutsch für Anfänger." 4 units.

M Tu W Th F, 8 and 11.

CD. Advanced Elementary German (Double Course). (SCHNEIDER)

Reading, grammar, composition, conversation. Zinnecker's "Deutsch für Anfänger," Haertel's "German Reader for Beginners," Stöckl's "Alle Fünf," Storm's "Immensee." Conducted mainly in German. 4 units.

M Tu W Th F, 9-11.

GRAPHIC ART

PERHAM W. NAHL, Assistant Professor of Freehand Drawing and Art Anatomy.

WALTER BARRON CURRIER, A.B., Head of the Vocational Art Department, Lincoln High School, Los Angeles.

MYRTLE JEAN WILLIAMSON, Instructor in Graphic Art in the Summer Session.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

AB. Freehand Drawing and Perspective. (WILLIAMSON)

The application of mechanical principles to freehand drawing, perspective, shade and shadow, and reflection; drawing from geometrical solids and its application to natural objects, in pencil, pen, and wash. Interior and exterior views of buildings are used to illustrate these principles. Credit for matriculation subject 6 will be given only upon passing the regular matriculation examination in that subject. In addition to the regular class meeting, there will be required at least six hours per week of outside study. 2 units.

M W F, 1-4.

110. The Development of Creative Art. (CURRIER)

Designed to meet the needs of the teacher and the advanced student.

The course consists of lectures on the psychology and development of art in daily life, followed by practical problems worked out in many media—charcoal, water color, brush and ink. The course is primarily intended for teachers, but others will be admitted to the lectures and, if properly prepared, to the laboratory work. 1 unit.

M W F, 9-12.

112. Out-of-Doors Sketching. (WILLIAMSON)

Landscape drawing in charcoal, wash and pencil. Lectures and black-board illustration on landscape composition. Though the University grounds afford ample opportunity for landscape practice, trips will be arranged to the lake and parks of Oakland and the hills back of Berkeley. 1 unit.

Tu Th, 1-4.

113. Etching and Color Block Printing.

(NAHL)

A general study of etching, aqua tint, dry point, monotype, engraving, lithography and wood block cutting for hand press printing. In addition to this course, formulae will be given for sizing and grounds for canvas; oil and tempera mediums; sizing, gilding, bronzing and coloring of frames and casts. Besides the theory and development of these processes, students are expected to do the actual craft work and color printing in laboratory periods.

As this course is offered for the benefit of teachers, craftsmen, and artists, a training in drawing and design is a necessary prerequisite. 2 units.

M W F, 1-4.

S118A. The Art of the Poster.

(CURRIER)

The poster as an art problem and its practical uses. The psychology, relation to modern advertising, and many means of expression of the poster will be given in lectures and laboratory work. Lettering, both pen and brush; the psychology of color; commercial, theatrical, book and art glass interpretation of the poster; foreign and American posters, and book illustration in poster form. As posters are to be worked out an understanding of elementary design and color theory is required. 1 unit.

Tu Th, 9-12.

S128A. Life Class.

(NAHL)

A critical study of the human form from living models with anatomy lectures. Pencil, charcoal, pastel, or oil may be used in this course by permission of the instructor in charge. Laboratory fee, \$2.50.

Prerequisite: at least one year of freehand or charcoal drawing. 1 unit.

Tu Th, 9-12.

S199. Pro-seminar in Graphic Art.

(NAHL)

According to the interests and requirements of students. 1 or 2 units.
Prerequisite: upper division standing.

Hours to be arranged.

S228A. Continuation of Course 128A.

Prerequisite: Graduate standing. 1 unit.

Tu Th, 9-12.

GREEK

GEORGE M. CALHOUN, Ph.D., Assistant Professor of Greek.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

SA. Greek for Beginners.

(CALHOUN)

An introduction to the Greek language based upon graded selections from Menander, Euclid, Aristophanes, Plato, Herodotus, and the New Testament. The text-book is J. T. Allen's *First Year of Greek*. Students who finish the course will be admitted immediately to Greek B. 3 units.

8 hrs, M Tu W Th F, 9, and M W F, 10.

175. Greek Romances in English Translation.

(CALHOUN)

Two lectures a week, private study of two or three romances, reports. The student will be encouraged to explore for himself, so far as that may be done through the medium of translations, this charming realm of fancy to which so few have penetrated; to read and to enjoy for their intrinsic beauty and interest the fascinating tales of love and adventure that Lucian, Longus, and Heliodorus have left behind them. The influence of the Greek romance upon other literatures will be studied, and advanced students of English, Latin, and the Romance languages will be given topics germane to their special interests. A knowledge of the Greek language is not required. Advanced students of Greek who wish to read the original texts may consult with the instructor in regard to special study and credit. 1 unit.

Tu Th, 10.

HISTORY

MORRIS JASTROW, Jr., Ph.D., LL.D., Professor of Semitic Languages, and Librarian of the University of Pennsylvania.

WILLIAM E. LINGELBACH, Ph.D., Professor of Modern European History, University of Pennsylvania.

HENRY JOHNSON, A.M., Professor of History, Teachers' College, Columbia University.

CARDINAL GOODWIN, Ph.D., Professor of American History on the Hearst Foundation, Mills College.

RAUL RAMÍREZ, Professor of English in the Instituto Pedagógico, Santiago, Chile, and Exchange Professor of Hispanic-American History in the University of California.

EUGENE I. McCORMAC, Ph.D., Professor of American History.

HERBERT I. PRIESTLEY, Ph.D., Assistant Professor of Mexican History; Assistant Curator, Bancroft Library.

KARL C. LEEBRICK, Ph.D., Assistant Professor of History.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S4A. General Modern European History.

(LEEBRICK)

Europe to 1648; emphasis on the period, 1500-1648. The development of Western European civilization; the chief contributions of earlier civilizations and the gradual growth and recognition of the State System; unity and continuity of Western European civilization. (History S4A is the same as History 4A given in the fall semester). 3 units.

M Tu W Th F, 10, and two section hours to be arranged.

S142A. The Metternichian Period.

(LEEBRICK)

1815-1850, with reference to the French Revolution. An intensive study of Metternich's control of Europe and the growing discontent with the settlement made at Vienna in 1815. 2 units.

M Tu W Th F, 9.

275A. Studies in American Diplomacy, 1778-1815.

(McCORMAC)

Tu Th, 3-5. 2 units.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

100. Introduction to the Historical Study of Religions. (JASTROW)

The general questions and the principles underlying the historical study of religions; definitions of religion; origin of religion; classification of religions; features common to all religions. The relations of religion to ethics, to philosophy, to psychology, to mythology, and to general culture; the part played by religion in human history; the laws underlying the unfolding of religious thought and religious practices. Collateral reading and discussion.

Textbooks: *The Study of Religion*, Jastrow; *Introduction to the History of Religions*, Jevons. 1 unit.

M W, 10.

101. Primitive Religions. (JASTROW)

Lectures on the general features of primitive religions: animism, taboo, totemism, and magic; birth and death rites among primitive peoples.

Textbooks: *Introduction to the History of Religion*, Hopkins; *Religion of Primitive Peoples*, Brinton.

This course should be taken in connection with 102.

F, 10.

102. Religions and Civilizations of the Ancient East. (JASTROW)

Lectures on the religions of Egypt, Babylonia, Assyria, the religion of the ancient Hebrews, Persia, and India.

Textbooks: *History of Religion*, Moore; *History of Religion*, Hopkins; *Religions of the World*, Barton. 1 unit.

Tu Th, 10.

Attention is called to the courses in the Old Testament in English announced by Professor Jastrow in the Department of Semitic Languages.

S143. The Revolutionary and the Napoleonic Era. (LINGELBACH)

In the study of the French Revolution emphasis will be laid on the political and social aspects of the movement; for the years of Napoleon's domination the economic and international features will be stressed. The contrasts and parallels with other revolutionary movements, as for example the Russian, will be kept in mind throughout. The course is intended for advanced students. Lectures, research, reports, and discussion. 2 units.

M Tu W Th F, 9.

S147. Europe Since 1815.

(LINGELBACH)

The course is extensive rather than intensive in character and deals with the following problems: significant geological and ethnic factors; the heritage of the French Revolution; the Congress of Vienna and reconstruction; the industrial and agrarian revolutions; the growth of the modern city; the new social conditions and the tendency toward government control and regulation; commercial and colonial expansion; imperialism and international rivalries; sketch of the world war and the problems of peace. Lectures, text-book and assigned readings. 2 units.

M Tu W Th F, 11.

S161A. The Intellectual History of the Spanish American Republics.

(RAMÍREZ)

A general survey of the development of education, art, and literature since the period of Independence, with an intensive examination of the modernist movement in belles lettres. 1 unit.

Two meetings a week. Hours to be arranged.

S162B. History of South America.

(RAMÍREZ)

The ethnological background; transmission of Spanish culture; geographical, economic, and social factors in the development of the modern states; South American influences on the program of Pan-Americanism; modern problems and tendencies. 1 unit.

Three meetings a week. Hours to be arranged.

S166. History of Mexico.

(PRIESTLEY)

A general survey of the explorations and conquests of the Spaniards in North America; the political, economic, and social development of New Spain; the War of Independence; the Independence of Texas and the War with the United States; the movement of the Reforma, the French Intervention, and the development of the constitutions; modern industrial growth, and the recent Revolution. Special attention will be given to relations with the United States and to recent problems. 2 units.

M Tu W Th F, 9.

S174. History of the United States Since 1868.

(McCORMACK)

M Tu W Th F, 10. 2 units.

S181B. The Trans-Mississippi West, 1803-1853.

(GOODWIN)

General course intended to give a broad outline view of the development of the West, with special reference to the acquisition and settlement of the territory. Lectures and assigned readings. 2 units.

M Tu W Th F, 2.

184. The Southwest, 1820-1845.

(GOODWIN)

An advanced course designed to give a thorough knowledge of the "Southwestward Movement" and an introduction to the special literature of the subject. Lectures, conferences, and reports on assigned topics. 2 units.

M Tu W Th F, 3.

S265. Seminar in Hispanic American History.

(PRIESTLEY)

Special investigations of topics within the field, with results embodied in brief theses. 2 units.

Two meetings a week. Hours to be arranged.

275a. Studies in American Diplomacy, 1815-1850.

(McCORMACK)

Tu Th, 3-5. 2 units.

303. The Teaching of History in Secondary Schools.

(JOHNSON)

The practical problems of the classroom will be analyzed and illustrated by exercises in the use of text-books, collateral reading, maps, pictures, and other essential material. Special attention will be given to the problem of relating historical instruction to Americanization. 2 units.

M Tu W Th F, 8.

HOME ECONOMICS

LOUISE STANLEY, Ph.D., Professor of Home Economics, University of Missouri.

MILLCENT L. SEARS, B.S., Professor of Home Economics, University of Nevada.

HARRIET G. EDDY, A.B., Assistant Professor of Agriculture Extension and State Demonstration Leader for California.

DORIS A. DANIELS, A.B., Instructor in Agriculture Extension.

GERTRUDE N. WHITTON, A.B., Instructor in Household Science in the Summer Session.

LILLIAN B. BRIDGMAN, M.A., Lecturer in House Planning in the Summer Session.

BERNAY JAKWAY, A.B., Lecturer in Interior Decoration in the Summer Session.

HELEN W. FANCHER, Instructor in Household Art, University of California.

MARY C. HERETH, B.S., Instructor in Household Art in the Summer Session.

Student Assistants:

Household Art: CONSTANCE BOESKEN, A.B.; RUTH M. LAMBERT,
ANNE MALLINSON, KATHERINE FISK, MARGUERITE HAYS.

Household Science: GLADYS NEVENZEI, A.B.; HELEN DOYLE, A.B.;
GERTRUDE HUNT, A.B.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

HOUSEHOLD ART**140. Teachers' Course in Elementary Methods. (HERETH)**

This course offers training in the presentation of technical problems in clothing construction for elementary schools. Prerequisite: Household Art 1A-1B or the equivalent. Laboratory fee \$2.50, includes use of equipment and materials for demonstration models. Garment materials and individual sewing utensils to be furnished by the students. 2 units.

Lectures and laboratory, M Tu W Th F: Sec. 1, 9-12; Sec. 2, 1-4.

150. Teachers' Course in Secondary Methods.

(FANCHER)

This offers training for the presentation of advanced work in clothing construction for secondary schools. Prerequisite: Household Art 1A-1B and 198 or their equivalents. Laboratory fee, \$2.50, includes use of equipment and envelope of materials for demonstration models. Garment materials and individual sewing utensils to be furnished by the students. 2 units.

Lectures and laboratory, M Tu W Th: Sec. 1, 9-12; Sec. 2, 1-4.
Field work, F, both sections. Time to be arranged.

S160. House Management.

(SEARS)

Organization of the work of the household from the standpoint of efficiency, service, convenience; consideration of equipment, demonstration of labor saving devices and of a variety of systems for heat, light, ventilation, water; household finances—budgeting, recording, buying. The course will be given in a "Practice House" near the campus and visits will be made to institutions and manufacturing plants. Laboratory fee, \$1.50. 2 units.

Lectures, Tu Th, 1, Sat, 9; laboratory, discussion and field work, Tu, Th, 2-4, Sat, 10-12.

172. House Planning and Design.

(BRIDGMAN)

Lectures: illustration with lantern slides showing modern examples and noting the influence of historic prototypes upon construction and design. The cultural value of the study of architecture as a fine art, not as a profession, will be kept in mind throughout the course. 1 unit.

M W F, 11. (May be taken without laboratory work.)

Laboratory: will include problems in house planning; rendering of wall elevations and plans; study of building materials and construction suitable for different types; installation of plumbing for water, heat, light, and ventilation, et cetera. Visits will be made on Saturdays to the Building Materials Association, manufacturing plants, and other places of interest. Prerequisite: mechanical drawing, elementary design. 2 units.

M Tu W Th F, 8-11.

173. Interior Decoration.

(JAKWAY)

Lectures, discussions and demonstration. This course is concerned both with the principles that underlie the art and with the decorative materials and processes used in its practice. The general aim is to train the taste and aesthetic judgment of the student with reference to what is fitting and beautiful in the home, and

to acquaint him with the sources, costs and uses of the various materials with which houses are furnished. The course will be given in a Practice House near the Campus. Prerequisite: elementary design and history of art, or their equivalents. Laboratory fee, \$2.50. 2 units.

M Tu W Th F, 9-11.

HOUSEHOLD SCIENCE

AB. Study of Foods.

(DANIELS)

The study of foods from the economic and hygienic points of view; of the chemical and physical characteristics of common food classes in so far as these characteristics affect methods of cooking and digestibility; typical cooking processes, recipe analysis and variation, service of meals. Equivalent to matriculation subject 18d. Prerequisite: matriculation chemistry. Matriculation credit, 4 units. Laboratory fee, \$3.00.

Lectures or recitations, M Tu W Th F, 1; laboratory, 2-4.

S2. Food and Dietetics.

(WHITTON)

The essential facts governing chemical, physical, hygienic, and economic standards of food; methods of estimating kind and quantity of food required under varying conditions; the adequate feeding of families at low cost; the simplest facts about the feeding of infants and the sick. Laboratory fee, \$2.00. 2 units.

Lectures, M W F, 8; laboratory, Tu Th, 8-10.

S30. Care and Feeding of Children.

(WHITTON)

A study of the feeding and physical care of infants and children, and of the organization and operation of nutrition classes and school lunches, designed to be of use to teachers, nurses, and social workers. 2 units.

Lectures, M Tu W Th F, 2; laboratory, F, 2-4.

S112. Principles of Home Demonstration Work.

(DANIELS, EDDY, and others)

A résumé of the provisions of the Smith-Lever Act, and of accomplishments in extension work in agriculture and home economics; the relation of the home demonstration agent to the farm bureau, to the University, and to the federal department. The lectures are offered as a symposium upon the nature and value of the work of the home demonstration agent, and will include the opportunity of field trips to near-by county centers. 1 unit.

Lectures, M W F, 10.

S132. Organization and Administration of Vocational Home Economics Courses. (STANLEY)

A study of the provisions of the Smith-Hughes Act, with special reference to vocational home economics; a review of the accomplishments of this in the states. This is a course intended primarily for those interested in going into state and city supervision, but may be taken by the high school teacher who is interested in seeing how her work can be developed in accordance with the national programme. 2 units.

M Tu W Th F, 11.

S300. Methods of Teaching Home Economics. (STANLEY)

Development and aims of home economics education; organization of the subject matter, lesson plans, courses of study, equipment. 2 units.

M Tu W Th F, 9.

ITALIAN

RUDOLPH ALTROCCHI, Assistant Professor of Italian, University of Chicago.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

SA. Elementary Italian.

(ALTROCCHI)

The elements of grammar, with special attention to pronunciation, and with oral and written exercises calculated to give the student as rapidly as possible both a reading and a speaking knowledge of the language. The texts used will be: Ruth Shepard Phelps, *An Italian Grammar*, and Wilkins and Altrocchi, *Italian Short Stories*. 2 units.

M Tu W Th F, 8.

SB. Intermediate Italian.

(ALTROCCHI)

A course for students who have already taken elementary Italian or have otherwise obtained equivalent knowledge of the language. Rapid review of the grammar, exercises in reading and composition, practice in conversation. The texts used will be chosen from the following: Ruth Shepard Phelps, *An Italian Grammar*; Wilkins and Altrocchi, *Italian Short Stories*; Geddes and Josselyn, Goldoni's *La Locandiera*. 2 units.

M Tu W Th F, 9.

JOURNALISM

COLIN V. DYMENT, A.B., Professor of Journalism, University of Oregon.
R. E. SWEETLAND, A.B., Assistant in English.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

1. Reporting.

(SWEETLAND)

The structure of the conventional news story; methods of gathering news; news sources; types of news stories; brief survey of the reportorial field. The class will be the reportorial staff of the Summer Session Californian, for which all students will be required to cover assignments regularly. 2 units.

M Tu W Th F, 8.

3. Editing and Handling Copy.

(DYMENT)

A practical course in the editorial side of a newspaper with the Summer Session Californian as the laboratory. The editorial page, newspaper features, what policy is, newswriting, copyreading, makeup, and other divisions of editorial work will be the subject of a daily lecture period, in which an effort will be made to give some idea of the newspaper business as an occupation and as a social factor. Students must also be prepared to give a minimum of two hours a day (average) to practical work in writing or handling copy, under the personal supervision of the instructor. The practical work will be handled in sections at hours to be arranged. Enrollment in this course limited to 20. The course is intended primarily for persons having supervision of high school papers, or for those who are doing or intend to do newspaper work. 2 units.

M Tu W Th F, 11.

LATIN

FRANCES E. SABIN, M.A., Assistant Professor of Latin, University of Wisconsin.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

188. Advanced Caesar.

(SABIN)

A reading course covering material other than that usually read in the high school. In connection with the reading of the text a study will be made of the Gallic war as a whole; for this *Caesar's Conquest of Gaul*, by T. Rice Holmes will be the basis. In general, the course aims to bring out the points in the study of Caesar in which high school pupils are most interested, thereby serving to add to the teacher's power in dealing with them. Topics for special study will be assigned, if desired. 1 unit.

Tu Th, 9.

300A. The Teaching of Secondary Latin.

(SABIN)

The discussion of such fundamental matters as the aims of the teaching of secondary Latin, the organization of content as a whole and in detail, and methods of classroom procedure. In the treatment of the above questions, the basis will be one of actual experience in the high school Latin work, rather than that of academic discussion. The material used for study will consist largely of the results worked out by various teachers of skill and experience. Throughout the course, however, an effort will be made to make the work personal in its nature, thus giving each student an opportunity to receive help in connection with individual needs, regardless of the extent of her experience. Lectures, reports, and laboratory work. 2 units.

M Tu W Th F, 8.

300B. The Background of High School Latin Adapted to the Practical Needs of the Classroom. (SABIN)

The aim is to determine not only what should be taught in connection with the reading of the texts, such as the accounts of the lives of the authors, the history of Roman times, Roman life, etc., but also how this may best be put into concrete form so that it may be available for immediate use in the classroom. The teacher should find in this course opportunity to prepare certain material for the enrichment of her work which she has not as yet found time to put into practical form. Lectures and laboratory work.
1 unit.

M W F, 9.

LAW

FRANCIS H. BOHLEN, LL.B., Algernon Sidney Biddle Professor of Law,
University of Pennsylvania Law School.

G. H. ROBINSON, A.B., LL.B., S.J.D., Professor of Law.

MILTON W. DOBRZENSKY, J.D., Lecturer in Commercial Law.

JAU DON BALL, M.D., Lecturer in Psychiatry and Criminology in the Summer Session.

EDWARD OSCAR HEINRICH, B.S., Consulting Expert in Criminal Investigations, Judicial Chemist, Examiner of Questioned Documents, San Francisco.

AUGUST VOLLMER, Chief of Police, City of Berkeley.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S18A. Commercial Law.

(DOBRZENSKY)

General outline of the law in its application to business relations covering briefly contracts, sales, agency, partnership, corporations, negotiable instruments, real property, etc. 2 units.

Tu Th, 8 a.m. and 7 p.m.

S112. The Law of Torts.

(BOHLEN)

Direct invasions of the inviolability of the person and property; trespass vi et armis; disseisin and conversion; development of tort liability by the action of trespass on the case; active misconduct; duty to take positive action for the protection or benefit of others; duties and liabilities of persons occupying certain specific relations; fraud and deceit; defamation; disparagement of property; justifications, excuses and defenses; effect of the plaintiff's fault as a bar to recovery for injury caused in part thereby. 4 units.

M Tu W Th F, 9-11.

S224. The Law of Sales.

(ROBINSON)

Subject matter of sale of personal property; executory and executed sales; bills of lading and jus disponendi; stoppage in transitu; fraud; warranty; Statute of Fraud. 4 units.

M Tu W Th F, 10-12.

CRIMINOLOGY

113A. Medical and Psychological Problems.

(BALL)

An introduction to the study of the medical and psychological side of criminology, including mental disorders, feeble-mindedness, disease, heredity, organization of departments for the study of criminals. Lectures and assigned reading. 2 units.

M Tu W Th F, 9.

113B. Practice Work in Criminology.

(BALL)

Work in neurology and psychiatry, with clinical demonstrations sufficient to enable the student to understand the findings in these subjects; practical work in the use of the Binet and other intelligence tests. Open to a limited number of students especially qualified by training or experience. 2 units.

M Tu W Th F, 11.

113C. The Investigation of Crime.

(HEINRICH, VOLLMER)

Modes and procedure in use in the best criminal and legal practice for the detection, preservation and ultimate presentation in court of facts essential to the solution of a criminal problem and the identification and apprehension of criminals. Crime agencies, police systems, criminals, methods of operation. Lectures, exhibits, photographs, stereopticon views. 2 units.

M Tu W Th F, 10.

113D. Field and Laboratory Methods in Criminal Investigation.

(HEINRICH, INGERSOLL, MEHRTENS)

Practical training in the finger-print system of identification, in the use of the microscope and in the use of the camera. Lectures, laboratory and field work. This course includes textile fabrics, foods and drugs, stains and smears, outdoor work with the camera, indoor work with the camera, ballistics, fires and explosions, photography of colored objects. Open to a limited number of students especially qualified by training or experience. 2 units.

M Tu W Th F, 11. Extra laboratory hour to be arranged.

113E. Intensive Course in Psychiatry from an Individual, Social, and Industrial Point of View.

(BALL)

The course includes a careful review of methods of examinations, personality studies, and at least three weeks' resident study in an institution for the insane or feeble-minded or in a penal institution. Each student will be assigned a special problem involving psychiatry. Open to not more than seven students of special qualifications. Credit to be arranged.

M Tu W Th F, 1.

MATHEMATICS

R. G. D. RICHARDSON, Ph.D., Professor of Mathematics, Brown University.

D. N. LEHMER, Ph.D., Professor of Mathematics.

THOMAS MILTON PUTNAM, Ph.D., Professor of Mathematics.

W. E. MILNE, Ph.D., Professor of Mathematics, University of Oregon.

G. E. F. SHERWOOD, M.A., Associate Professor of Mathematics, University of California, Southern Branch.

FRANK R. MORRIS, Ph.D., Instructor in Mathematics.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S4A. Solid Analytical Geometry and Calculus. (PUTNAM)

M Tu W Th F, 8 and 2. 3 units.

S251. Special Advanced Study and Research. (LEHMER)

Hours and credit to be arranged.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

A. Graphic Algebra. (SHERWOOD)

The graphic and algebraic treatment of equations of the first and second degree, both single and simultaneous; the remainder and factor theorems; graphic solutions of equations of higher degree; ratio, proportion, and variation. This course is equivalent to matriculation subject 2b¹. 2 units.

M Tu W Th F, 10.

B. Solid Geometry. (SHERWOOD)

The fundamental propositions of the Euclidean geometry of space. This course is equivalent to matriculation subject 2d. 2 units.

M Tu W Th F, 11.

C. Plane Trigonometry.

(RICHARDSON)

The development of the general formulae of plane trigonometry, with application to the solution of triangles, and practice in the use of logarithmic tables. This course is equivalent to matriculation subject 2f. 2 units.

M Tu W Th F, 8.

S4a. Integral Calculus.

(MORRIS)

M Tu W Th F, 8 and 2. 3 units.

85. Plane Analytical Geometry.

(MILNE)

Analytic treatment of the straight line and the circle; elementary properties of the conic sections; problems in loci; application of graphical methods to the solution of equations. 2 units.

M Tu W Th F, 9.

S224. Theory of Functions of a Complex Variable.

(RICHARDSON)

Geometrical interpretation of fundamental operations; the elementary functions in the complex plane; Riemann surfaces; Cauchy's theorems. 2 units.

M Tu W Th F, 9.

S215. Theory of Numbers.

(LEHMER)

Divisibility of numbers, theory of congruences, power residues, primitive roots, continued fractions. 2 units.

M Tu W Th F, 8.

S251. Special Advanced Study and Research.

(LEHMER)

Hours and credit to be arranged.

MECHANICAL AND ELECTRICAL ENGINEERING

H. B. LANGILLE, A.B., Associate Professor of Machine Design and Mechanical Drawing.

ARTHUR B. DOMONOSKE, M.S., Assistant Professor of Mechanical Engineering.

GEORGE E. COX, Assistant in Mechanical Engineering and Foreman of Woodwork.

JAMES GEORGE, Assistant in Mechanical Engineering and Foreman of Ironwork.

Fees.—Laboratory deposits are at the rate of \$5 per unit of laboratory credit. The average amount returned at the end of the session is about two-fifths of the deposit.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

6A. Mechanical Drawing and Machine Design. (LANGILLE)

Fundamental principles and practical methods of producing mechanical drawings for use in pattern and machine shops. Drawing from machine members as models, and original design of machine parts or complete simple machines. Prerequisite: Drawing EF or the approval of the instructor. Intended for teachers of mechanical drawing in high schools and similar institutions who are not familiar with practical methods in drafting room and shops. 2 units.

Lectures, Tu Th, 2; drafting, M W F, 1-4, or hours to be arranged.

88A. Mechanical Practice. (COX)

Shop work in wood, including pattern making. A study of bench and machine tools, wood turning, and the reading of working drawings. Pattern making, including core prints and core boxes. Credit value for students in the College of Mechanics taking the course for University credit, 3 units.

M Tu W Th F, 9-12 or 1-4.

88B. Mechanical Practice.

(COX)

Continuation of course 8A. Credit value for students in the College of Mechanics taking the course for University credit, 3 units.

M Tu W Th F, 9-12 or 1-4.

89A. Mechanical Practice.

(GEORGE)

Shop work in iron, including machine work. A course in the ordinary processes of bench and machine tool work, including filing, turning, screw cutting, drilling, and grinding. Credit value for students in the College of Mechanics taking the course for University credit, 3 units.

M Tu W Th F, 9-12 or 1-4.

89B. Mechanical Practice.

(GEORGE)

Continuation of course 9A. Credit value for students in the College of Mechanics taking the course for University credit, 3 units.

M Tu W Th F, 9-12 or 1-4.

10. Automobile Construction.

(DOMONOSKE)

Demonstrations and explanations from chassis, engines, models, and lantern slides. One-half of the course will be devoted to mechanical equipment and one-half to electrical equipment, including ignition system, starting motors, electric cars, magnetic gear shift, and other devices. 1 unit.

M W F, 11; a fourth hour to be arranged.

MUSIC

FREDERICK ALEXANDER, A.B., Director of the Conservatory, Michigan State Normal College, Ypsilanti, Michigan.

SASCHA JACOBINOFF, Solo Violinist with New York Philharmonic and Philadelphia Symphony Orchestras.

MARIA MIKOVA, Solo Pianist, New York.

LILLIAN A. CUMMINGS, Head of the School Music Department, College of Music, University of Southern California.

MADGE QUIGLEY, Instructor in Harmony and Ear Training in the Summer Session.

JAMES BREAKEY, Accompanist in the Summer Session.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

1. **The University Chorus.** (ALEXANDER)
Repertory selected mainly from *alla cappella* masterpieces. Practical instruction in ensemble singing. Suggestions for choral material to be used in schools. 1 unit.
M Tu W Th F, 11.
2. **Orchestral Practice.** (JACOBINOFF)
Orchestral ensemble and string ensemble. Instruction in playing and teaching and suggestions for literature suitable for use in schools. 1 unit.
M Tu W Th F, 2.
3. **Orchestral Practice.** (JACOBINOFF)
Continuation of course 2. Advanced literature presented. For students and others who have had some experience in orchestral playing and who wish to practice in ensemble playing and conducting. No credit.
M W, 7 p.m.
4. **History and Appreciation of Music.** (ALEXANDER)
Text: *The History of Music*, by Waldo Selden Pratt. An outline of music and musicians, with a course of reading relating to musical literature. Illustrations and reports. 2 units.
M Tu W Th F, 10.
5. **Harmony and Ear Training, I.** (QUIGLEY)
Primary triads and inversions in the major and minor modes. The dominant seventh chord. Harmonization of melodies. Simple chromatic alterations. Passing tones. Original melodic and har-

monic composition. Application of all work at the keyboard.
Prerequisite: knowledge of major scales and intervals. 2 units.

M Tu W Th F, 1.

6. **Harmony and Ear Training, II.** (QUIGLEY)

The second triads and seventh chords, with all alterations. Altered chords as chromatic and as modulating chords. Suspensions. Simple melodic and harmonic composition in double period form. Prerequisite: course 5 or its equivalent. 2 units.

M Tu W Th F, 2.

21. **Music for Primary and Grammar Grades.** (CUMMINGS)

Training for teachers in the first eight grades. Study of the child voice. A detailed survey of material adapted to the needs of children; methods of presentation; practice reading; sight singing and ear training. Prerequisite: a knowledge of notation, including clefs, notes, rests, key and meter signatures, formation of major and minor scales (three forms of latter), and at least fair ability in the art of sight singing. The texts to be used will be the *Progressive Music Series, Teacher's Manuals I, II and III*, and *Pupil's Books One, Two, and Three*. 2 units.

M Tu W Th F, 8.

22. **High School Music.** (CUMMINGS)

Special work in voice and diction; advanced sight singing and ear training; study of available material for high school classes; plan for courses of study; conducting; pedagogy. Prerequisites: at least two years' experience in teaching music; thorough knowledge of musical symbols, terminology, scales (major, minor, chromatic); ability to read and write musical notation; recognition of intervals. The texts to be used will be *Assembly Songs, Volume I*, by Hollis Dann, and *Laurel Union Songs*, by Armitage. 2 units.

M Tu W Th F, 9.

23. **Music for Supervisors.** (CUMMINGS)

A study of available material for first eight grades with practical use of same; methods of presentation to teachers; song interpretation; directions for course of study; various texts for supplementary work; practical work in advanced sight singing, ear training, and conducting. Prerequisite: at least one year's experience in teaching music; thorough knowledge of notation with ability to read simple music expertly. The text books to be used will be *The Music Supervisor*, by Thomas Tapper, *Music Teacher's Manual*, by Julia E. Crane, *The Hollis Dann Music Series*, first six books, and *Junior Songs*. 2 units.

M Tu W Th F, 1.

PHILOSOPHY

WALTER G. EVERETT, Ph.D., Professor of Philosophy and Natural Theology,
Brown University.

ROSWELL P. ANGLIER, Ph.D., Professor of Psychology; Director of the
Psychological Laboratory; Dean of Freshmen, Yale University.

WALTER B. PITKIN, A.B., Professor of Journalism, Columbia University.

CLARENCE I. LEWIS, Ph.D., Assistant Professor of Philosophy.

WARNER BROWN, Ph.D., Assistant Professor of Psychology.

INTERSESSION COURSES

(May 10 to June 19, 1920)

2A. General Psychology. (BROWN)

The facts of human experience, their relation to one another and to their physical correlates. Lectures, reading and recitation. Equivalent to 2A, as given in the regular session. 2 units.

M Tu W Th F.

S45A. Philosophies of Social Relations. (LEWIS)

A critical survey of the philosophical bases of anarchism, individualism, socialism, and communism. Fundamental ethical problems of political organization. 2 units.

M Tu W Th F, 2.

S103D. Ethical and Religious Ideals of the Nineteenth Century.

(LEWIS)

The conception of God and of the destiny of man in German idealism; the ethics of romanticism and of "self-realization"; Comte and the "religion of humanity"; Feuerbach and the Tübingen school; English naturalism and agnosticism, and English utilitarianism. 2 units.

M Tu W Th F, 3.

213. Psychological Research. (BROWN)

Investigation of special problems either in the Psychological Laboratory, through reading, or through field and clinical work. Weekly meetings and such other conferences with the instructor as the proper guidance of the work may require. Equivalent to 213 in

the regular session. Open to students now enrolled in Course 213 or to students who have completed an advanced laboratory or theoretical course in Psychology. Hours and units to be arranged.

S220. Research in Philosophy.

(LEWIS)

Hours and credit to be arranged.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S2A. General Psychology.

(ANGIER)

A general course, dealing in an introductory way with the functions of the human nervous system, types of human behavior, and the main facts and principles of mental activity. Among the topics considered are sensory experience, perception, habit, memory and learning, ideas, language, and thought; attitudes, attention, emotion; instinct, voluntary activity; certain applications to every-day life. Lectures and assigned readings. 2 units.

M Tu W Th F, 8.

S3. History of Philosophy.

(EVERETT)

Problems of Mediaeval and Renaissance Philosophy, with an introduction on Platonism and Neo-Platonism. The aim of this course is to present in clear outline the chief questions which occupied the thinkers of these periods, and to show their significance for the intellectual and spiritual life of the times. 1 unit.

M W F, 11.

S101. Problems of Conduct.

(PITKIN)

"Technique of Conduct"; the actual methods which modern man has developed for "doing the right thing." The normal needs and desires of men will be analyzed, together with some of the conflicts and problems arising from them. Survey of several score contemporary cases of moral issues, both personal and public. 2 units.

M Tu W Th F, 3.

S112. Philosophy of Religion.

(EVERETT)

The chief topics to be discussed in this course are: the nature of religious experience, its psychological factors and the mutual relations; the poetic, or symbolic, elements in religion; knowledge and belief; naturalism and supernaturalism; the problem of evil; Christianity and the modern world; the life of the spirit. It is the aim of the course to aid students in the effort to voice a genuinely constructive view. 2 units.

M Tu W Th F, 10.

155. Dynamic Psychology.**(ANGIER)**

The fundamental determinants of man's personal and social behavior.

Essentially a course on mental adjustments—the mechanism of normal adjustments, of faulty adjustments, and of the prevention and correction of faulty adjustments. Among the subjects considered are: the native equipment of man, the problems of learning, of selection and control, the conflicts of trends, the resolution of conflicts, psycho-analysis, reëducation, etc. It is designed to exhibit mental mechanisms in action. Lectures, discussion, and prescribed reading. A course on general psychology is presupposed. 2 units.

M Tu W Th F, 9.

PHYSICAL EDUCATION

CHARLES W. ANDREWS, Special Assistant in Wrestling.

CHARLES S. BOTSFORD, Instructor in Physical Education.

A. D. BROWNE, M.D., Associate Professor of Physical Education, Stanford University.

LORAIN CADWELL, Director of the Department of Physical Education, Girls' Collegiate School, Los Angeles.

WALTER CHRISTIE, Head Track Coach for the Associated Students of the University of California.

KATHERINE EDSON, Solo Danseuse and Teacher, San Francisco.

CLARK W. HETHERINGTON, A.B., State Supervisor of Physical Education.

CHARLES H. HUNT, Boy Scout Executive, Berkeley, California.

FRANK KLEEBCERGER, B.S.M.A., Professor of Physical Education.

LYBA SHEFFIELD MACKIE, Instructor in Swimming in the Summer Session.

GLADYS PALMER, Instructor in Physical Education, Southern Branch of University of California.

HAZEL H. PRATT, Assistant Professor of Physical Education, University of Kansas.

CLARENCE M. PRICE, B.S., Instructor in Physical Education.

MARY S. SHAFER, Instructor in Dancing in the Summer Session.

MARTIN H. TRIEB, Assistant in Physical Education.

THEODORE VIEHMAN, Instructor in the Department of Drama, Carnegie Institute of Technology, Pittsburg, Pa.

EARL H. WIGHT, B.L., Instructor in Physical Education.

GENERAL INFORMATION

The work of the Department of Physical Education is under the general direction of Professor Frank Kleeberger.

During the first day all enrollments for physical education courses will take place on the main floor of Harmon Gymnasium.

Gymnasium costumes will be required for all floor or field courses. Women's gymnasium clothing may be obtained at the Associated Students' Store at the opening of the Summer Session.

All those who expect to take the playground courses should provide themselves with appropriate costumes for such games as basketball,

baseball, running and jumping. Any dress with bloomers, short skirt, low-heel and broad-toe shoes will satisfy the requirements.

All women enrolled in swimming courses or wishing to make use of Hearst Swimming Pool are required to wear the University swimming suits, which will be issued each day on the presentation of a receipt from the Comptroller's Office for the \$1.50 swimming suit fee charged to cover rental, repairs, and laundry of swimming suits.

Men enrolled in field or floor work will furnish their own shoes but will be required to wear the athletic clothing furnished by the University. This clothing, together with all necessary athletic equipment, will be issued at Office 3, Harmon Gymnasium, on the presentation of the Comptroller's receipt for the \$1.00 athletic fee charged in connection with *all field and floor courses*. Soiled articles may be exchanged daily for clean clothing between the hours of 10-12 and 2-4 at Office 3, Harmon Gymnasium.

Gymnasium costumes and dancing slippers will be required for the elementary dancing classes. Short, full, circular or accordeon-pleated skirts over bloomers and special dancing shoes will be necessary for the work in the advanced courses.

The University tennis courts will be open during the entire Summer Session and regular classes will be organized for instruction in tennis and special tournaments will be arranged.

No visitors will be admitted to the folk or aesthetic dancing courses except by special arrangement with the Dean.

A preliminary physical examination will be required of those taking the strenuous practical courses.

Physical examinations for women will be conducted in Hearst Hall by appointment during the first week of the session. The appointments for these examinations must be arranged at Harmon Gymnasium during the first day of the session, and thereafter at Hearst Hall.

Physical examinations for men will be conducted at Harmon Gymnasium, June 22 and 23.

For those who have not pursued elementary courses equivalent to the ones herein listed, practical examinations will be required for entrance to the advanced gymnastic and dancing courses. A final examination will be given to those registered for credit.

Students wishing to take work in the Department of Physical Education but desiring no credit therefor, must record these courses on the study-lists which they file at the Recorder's Office, and must also fill out enrollment cards in the classes concerned.

Students may enroll for a maximum of nine units of work, but six units only will be accepted by the University toward a degree.

OPPORTUNITIES FOR RECREATION

Opportunity for general participation in various recreational activities is provided for students attending the summer school. Choice may be made from the following: swimming, tennis, folk dancing, elementary (aesthetic) dancing, social dancing, general recreation, athletic activities for women, dramatic and dancing games, gymnastic dancing for men and women.

Recreation Information Bureau.—The Department of Physical Education maintains a Recreation Information Bureau, where data may be obtained as to theatrical events, and as to points of interest and historical significance in and about San Francisco and the bay region. Full directions can be obtained as to time schedules and routes to be considered in reaching various places of interest such as the Palace of Fine Arts, Golden Gate Park, Cliff House, Sutro Baths, Neptune Beach, the various theatres, etc. Registration will be made through this bureau for the special sight-seeing trips which will be conducted for the weekend tramps through the hills of Marin County and through outlying districts of Oakland and Berkeley for the evening picnic luncheons, and for the annual excursion about San Francisco Bay.

Every Friday evening a dance for the exclusive benefit of all Summer Session students is conducted at Harmon Gymnasium.

TEACHERS OF PHYSICAL EDUCATION—RECOMMENDED GROUPING OF COURSES

The recommendation for the High School Teachers' Certificate with a major in Physical Education is given only to those holding the bachelor's degree and after the completion of a fifth year of work as outlined in the ANNOUNCEMENT OF THE SCHOOL OF EDUCATION.

Students looking forward to state certification in physical education or in special activities such as athletics, gymnastics, playground activities, etc., should be guided by the arrangement of courses given below.

COACHING SCHOOL FOR MEN

The courses dealing with athletics for men purposely arranged to make possible an intensive training in all the sports and mass drills, which are important to the high school director. It will be possible for an individual to select the particular courses he may especially desire or to join the group in following out the intensive program extending from 8 a.m. to 6 p.m. Men enrolled in the coaches' school will be suitably uniformed for the practical work and will continue so dressed throughout the entire day since theory and practice will be closely interwoven

to prevent undue fatigue and to permit of practical demonstration at all times. Men should bring athletic shoes but no athletic clothing or equipment and should come sufficiently hardened to vigorous physical exertion to make possible active participation throughout the entire period of six weeks. Attention will be given to mass boxing, wrestling and tumbling as well as to mass games and relays. The disciplinary posture drills will be interwoven with quickening exercises in accord with the methods finally approved by the Government experts in military training. Special emphasis will be laid upon the tactics of military physical training as fundamental to the most efficient conduct of mass work. Each student will be required to conduct mass drills after the first week of instruction and to offer original work in the final examination.

The general content of the coaching courses will cover the interpretation of rules and the discussion of problems involved in officiating for the various sports, organization of season campaigns, schedules of games, analysis of the sports from the psychological point of view and discussion of the inherent possibilities of each for the development of school spirit and sportsmanship.

S111AB or 17AB, M Tu W Th F, 8.

S112B, S7AB, or 11A, M Tu W Th F, 9.

S7AB or 11A, M Tu W Th F, 10.

S5GH, S8AB, or 11A, M Tu W Th F, 11.

S100AB, M Tu W Th F, 1.

S122B, M Tu W Th F, 2.

S5EF, M Tu W Th F, 3.

S5CD, M Tu W Th F, 4.

S5AB, M Tu W Th F, 5.

SUGGESTED SCHEDULE FOR WOMEN PLANNING TO DIRECT PHYSICAL EDUCATION IN HIGH SCHOOLS

The schedule has been carefully arranged to prevent, as far as possible, conflicts between the courses most essential to the training of high school teachers. It is not expected that any one individual will take all of the courses offered save as a matter of general review, but that each shall select the courses necessary to the completion of training already undertaken. Individuals wishing further advice as to proper sequence of courses should consult Professor Kleeberger.

In course 113C special attention will be given to the development of a comprehensive programme of physical training for high schools and to the discussion of organization, drill tactics, and the practical conduct of instruction in the various activities.

The development of school festivals and the promotion of wholesome recreation through folk and social dancing is becoming more keenly recognized every day. High school directors who are not prepared to conduct work along such lines are advised to enroll for courses 15AB, 15CD, 18CD, and 17CD.

S111AB, M Tu W Th F, 8.

S112B, 10A, 10B, 11A, or 16CD, M Tu W Th F, 9.

S112A, S1AB, 10A, 10B, 11A, or 16AB, M Tu W Th F, 10.

10B, 10C, 11A, or 16AB, M Tu W Th F, 11.

S100AB, M Tu W Th F, 1.

S122A, 121AB, 10A, 10B, 15AB, 16AB, M Tu W Th F, 2.

S101A, 10B, 10C, 14AB, or 16CD, M Tu W Th F, 3.

10A, 10B, 14CD, or 18AB, M Tu W Th F, 4.

14EF or 10A, M Tu W Th F, 5.

INTERSESSION COURSES

(May 10 to June 19, 1920)

For description of courses see text of Special Announcement of Department of Physical Education, Summer Session, 1920.

S1AB. Gymnastics: Drill Tactics, Calisthenics and Games. Men.

(KLEEGER)

M Tu W Th F, 3. Harmon Gymnasium, Floor A. 1 unit.

S2AB. Gymnastics: Heavy Apparatus. Women.

(KLEEGER)

M Tu W Th F, 2. Hearst Hall, Floor A. 1 unit.

S7AB. Boxing. Weaponless Defense.

(KLEEGER)

M Tu W Th F, 4. Harmon Gymnasium, Boxing Room. 1 unit.

10. Swimming. Women.

(MACKIE)

M Tu W Th F, 2-5. Hearst Pool. $\frac{1}{2}$ unit. (See Bulletin Board for divisions and sections.)

11A. Tennis. Men and Women.

(KLEEGER)

Sec. 1, M W F; Sec. 2, Tu Th S, 9-12. U. C. Tennis Courts. $\frac{1}{2}$ unit.
(See Bulletin for final schedule.)

15A. Folk Dancing for Schools and Playgrounds. Women.

M Tu W Th F, 2. Hearst Hall, Floor C. 1 unit.

16AB. Elementary Dancing. Women.

2 sections, M Tu W Th F, 3-4. Hearst Hall, Floor C. 1 unit.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

GYMNASTICS

- S1AB. **Gymnastics: Drill Tactics, Calisthenics and Games.** (TRIEB)
M Tu W Th F, 10. Hearst Hall. 1 unit.
- S2AB. **Gymnastics: Heavy Apparatus.** (WIGHT)
M Tu W Th F, 3. Hearst Hall, Floor A. 1 unit.
- 2GH. **Schoolroom Games and Gymnastics.** (TRIEB)
M W F, 1. Public Schoolroom. 1 unit.

ATHLETICS**MEN**

- S5AB. **American Football.** (PRICE)
M Tu W Th F, 5. Budd Hall and California Field. 1 unit.
- S5CD. **Track and Field.** (CHRISTIE)
M Tu W Th F, 4. Budd Hall and University Track. 1 unit.
- S5EF. **Baseball.** (PRICE)
M Tu W Th F, 3. Budd Hall and California Field. 1 unit.
- S5GH. **Basketball.** (WIGHT)
M Tu W Th F, 11. Harmon Gymnasium. 1 unit.
- S7AB. **Boxing.** (KLEESBERGER, ANDREWS)
M Tu W Th F, 9, 10, 3. Harmon Boxing Room. 1 unit.
- S8AB. **Wrestling.** (ANDREWS)
M Tu W Th F, 11, 4. Harmon Wrestling Room. 1 unit.

WOMEN

The purposes of the courses listed under swimming for women are to properly grade instruction in swimming and thus simplify and standardize, through scientific methods, the acquiring of skill both as a performer and a teacher of swimming.

Prospective students should read the Bulletin Board at Hearst Hall for complete information. All students enrolled in these courses are expected to provide themselves with the text book, *Swimming Simplified*, in order that they may fully understand the purpose of the drills and procedure followed. Only those regularly enrolled will be admitted to the class during the period of instruction.

All women enrolled in swimming classes must report at the first general swimming conference for detailed instruction and general explanation of the plans which must be followed with regard to the use of the swimming pool, locker rooms and bathing suits.

A swimming suit fee of \$1.50 must be paid and the receipt presented at the time of enrollment for courses in swimming.

- 10A. Swimming: Elementary.** (CADWELL)
Six sections: M Tu W Th F. Hearst Swimming Pool. $\frac{1}{2}$ unit.
Sec. 1, 9:45-10:15; Sec. 2, 10:45-11:15; Sec. 3, 1:45-2:15; Sec. 4, 2:45-3:15; Sec. 5, 3:15-3:45; Sec. 6, 4:45-5:15.
- 10B. Swimming: Intermediate.** (CADWELL)
Six sections: M Tu W Th F. Hearst Swimming Pool. $\frac{1}{2}$ unit.
Sec. 1, 9:15-9:45; Sec. 2, 10:15-10:45; Sec. 3, 11:15-11:45; Sec. 4, 2:15-2:45; Sec. 5, 3:15-3:45; Sec. 6, 4:45-5:15.
- 10C. Swimming: Advanced.** (CADWELL)
Two sections: M Tu W Th F. Hearst Swimming Pool. $\frac{1}{2}$ unit.
Sec. 1, 11:45-12:15; Sec. 2, 3:45-4:15.
- 10D. Swimming: Teachers' Course.** (CADWELL)
Sections to be announced on Bulletin Board. $\frac{1}{2}$ unit.
- 11A. Tennis.** (PALMER)
Secs. 1-4, M W F, 8-12; Sec. 5-8, Tu Th S, 8-12. U. C. Courts. $\frac{1}{2}$ unit.
- 14AB. Baseball and Volleyball.** (PRATT)
M Tu W Th F, 3. Hearst Athletic Field. 1 unit.
- 14CD. Basketball, Field and Track.** (PRATT)
M Tu W Th F, 4. Hearst Athletic Field. 1 unit.
- 14EF. Hockey and Swimming.** (PRATT)
M Tu W Th F, 5. Hearst Athletic Field. 1 unit.

DANCING

- 15AB. Folk Dancing: Teachers' Course.** (SHAFTER)
M Tu W Th F, 2. Hearst Hall, Floor C. 1 unit.
- 15CD. English Folk Dancing: Elementary.** (VIEHMAN)
Sec. 1, M Tu W Th F, 1; Sec. 2, M Tu W Th F, 11. Hearst Hall, Floor C. 1 unit.
- 15EF. English Folk Dancing: Advanced.** (VIEHMAN)
Sec. 1, M Tu W Th F, 9; Sec. 2, M Tu W Th F, 10. Hearst Hall, Floor C. 1 unit.

- 16AB. Dancing: Elementary.** (EDSON)
Three sections: M Tu W Th F, 10, 11. Harmon Gymnasium, Floor A.
1 unit.
- 16CD. Dancing: Intermediate.** (EDSON)
Two sections: M Tu W Th F, 10. Harmon Gymnasium, Floor A. 1
unit.
- 16EF. Dancing: Advanced.** (EDSON)
M Tu W Th F, 11. Harmon Gymnasium, Floor A. 1 unit.
- 17AB. Gymnastic Dancing.** (TRIEB)
M Tu W Th F, 8. Hearst Hall, Floor C. 1 unit.
- 17CD. Social Dancing: Teachers' Course.** (SHAFTER)
M Tu W Th F, 5. Hearst Hall, Floor A. No credit.
- 18AB. Dramatic Games and Dancing for Playgrounds and Elementary
Schools.** (SHAFTER)
M Tu W Th F, 4. Hearst Hall, Floor C. 1 unit.
- 18CD. Dramatic Expression for School and Playground.** (SHAFTER)
M Tu W Th, 3. Hearst Hall, Floor C. 1 unit.
- 21AB. Playground Activities: Adult Class.** (BOTSFORD)
M Tu W Th F, 11. Hearst Hall, Floor B. 1 unit.
- 21CD. Leisure Time Activities: Adults.** (BOTSFORD, PRICE, TRIEB)
Sec. 1, M Tu W Th F, 4. California Field. (HUNT, PRICE)
Sec. 2, M Tu W Th F, 7:30 p.m. Harmon Gymnasium, Floor A.
1 unit. (BOTSFORD, TRIEB)

GENERAL THEORY

- S100AB. Special Functions and Aims of Physical Education.**
(HETHERINGTON)
M Tu W Th F, 1. 2 units.
- S101A. Organization and Management of School and Municipal Play-
grounds.** (HUNT)
Tu Th S, 3. Wheeler Hall. 1 unit.
- S111AB. Health Inspection and Physical Examination.** (BROWNE)
M Tu W Tu F, 8. 2 units.
- S112A. Therapeutic Gymnastics.** (BROWNE)
M Tu W Th F, 10. Harmon Gymnasium. 1 unit.

S112B. First Aid for Athletic Injuries. (BROWNE)

M Tu W Th F, 9. Harmon Gymnasium, Wrestling Room. 1 unit.

S122B. Organization and Leadership of Physical Training Activities.

(KLEEBERGER)

M Tu W Th F, 2. California Field. 1 unit.

**S122A. Organization and Leadership of Physical Training Activities for
Elementary School Teachers.** (PRATT, TRIEB)

M Tu W Th F, 2. Hearst Hall, Floor A. 1 unit.

**S121AB. Organization and Leadership of Physical Training Activities for
High School Teachers.** (HETHERINGTON)

M Tu W Th F, 2. Wheeler Hall. 2 units.

PHYSICS

RALPH S. MINOR, Ph.D., Professor of Physics.

W. H. BAIR, B.S., M.S., Assistant Professor of Physics, University of North Dakota.

LLOYD T. JONES, Ph.D., Assistant Professor of Physics.

A. HAVEN SMITH, Dean of Riverside Junior College.

RAYMOND B. ABBOTT, Ph.D., Instructor in Physics.

RAYMOND T. BIRGE, Ph.D., Instructor in Physics.

WILLIAM H. WILLIAMS, Graduate, U. S. Military Academy, Instructor in Physics.

ELMER DERSHEM, Ph.D., Instructor in Physics.

W. C. POMEROY, B.S., Instructor in Physics.

V. F. LENZEN, Ph.D., Assistant in Physics.

The physical laboratories will be open daily, except Saturdays, from 9 to 12, and 1 to 4. The laboratory fee is \$7.50 for Course A. A deposit of \$10.00 is required in Course S3, the fee is \$4.00 per unit of work assigned.

INTERSESSION COURSES

(May 10 to June 19, 1920)

A. Elements of Physics.

(BIRGE)

A first course in physics, designed to present the essential facts and principles of each of the main subdivisions of the subject and to illustrate their connection with the facts and processes of everyday life. One lecture with experimental illustration by the instructor, one recitation, and two laboratory exercises, each daily. Credit for matriculation subject 11 will be given for the satisfactory completion of the course.

Lectures and recitations, M Tu W Th F, 9, 1; laboratory, M Tu W Th F, 10-12, 2-4.

S3. Physical Measurements.

(ABBOTT)

A laboratory course in general physics offering opportunity for experimental work in mechanics, properties of matter, heat, sound, light, electricity and magnetism, requiring quantitative results. The course in detail will be adapted to the needs of individual

students and may cover any portion of the laboratory work of the fall or spring session. Credit, not to exceed 4 units, may be given for the course.

M Tu W Th F, 9-12, 1-4.

Slab. General Physics.

(JONES)

Experimentally illustrated lectures on properties of matter, mechanics and heat. This course may be taken as part of the requirement in physics for students of medicine. Together with the recitation course listed below and two units of laboratory work under course S3 it offers the equivalent of course 1A-1B of the regular session. Prerequisite, high school physics. 2 units.

M Tu W Th F, 11.

Slc. General Physics.

(JONES)

A recitation and problem course in properties of matter, mechanics and heat. To accompany course Slab. 2 units.

M Tu W Th F, 9.

202. Seminar—Physical Theories.

(WILLIAMS)

M, 10; W F, 10-12.

SUMMER SESSION COURSES

(June 31 to July 31, 1920)

A. Elements of Physics.

(POMEROY, SMITH, LENZEN)

A first course in physics, designed to present the essential facts and principles of each of the main subdivisions of the subject and to illustrate their connection with the facts and processes of everyday life. One lecture with experimental illustration by the instructor, one recitation, and two laboratory exercises, each daily. Credit for matriculation subject 11 will be given for the satisfactory completion of the course.

Lectures and recitations, M Tu W Th F, 9, 1; laboratory, M Tu W Th F, 10-12, 2-4.

S3. Physical Measurements.

(BAIR)

A laboratory course in general physics offering opportunity for experimental work in mechanics, properties of matter, heat, sound, light, electricity and magnetism, requiring quantitative results. The course in detail will be adapted to the needs of individual students and may cover any portion of the laboratory work of the fall or spring session. Credit, not to exceed 4 units, may be given for the course.

M Tu W Th F, 9-12, 1-4.

S4A. General Physics.**(DERSHEM)**

Lectures with experimental illustration and assigned problems in electricity and magnetism. This course, together with one unit of laboratory work under S3, is the equivalent of course 4A in the fall session. Prerequisite: high school physics. 2 units.

M Tu W.Th F, 9.

S4B. General Physics.**(DERSHEM)**

Lectures with experimental illustration and assigned problems in wave motion, sound and light. This course, together with one unit of laboratory work under S3, is the equivalent of course 4B in the spring session. Prerequisite: high school physics. 2 units.

M Tu W Th F, 1.

120. Lecture Demonstrations.**(MINOR)**

Discussion of the fundamental phenomena of physics accompanied by a wide variety of experimental demonstrations. Suggestions on the manipulation of apparatus, its care, and its cost of manufacture or purchase. Aside from the usual demonstrations accompanying a first course considerable attention will be paid to methods of optical projection; the use of the differential thermoscope; the refraction trough; the Evans P. E. D. equipment; the radio-micrometer; and apparatus for lantern slides, opaque and micro-projection. The equipment of the physical laboratory for high school and junior college work, together with a display of new pieces of demonstration apparatus for the first year of the junior college course. An opportunity to repeat the demonstrations given in the lecture will be offered to a limited number of students. 2 units.

M Tu W Th F, 11.

202. Seminar.**(MINOR)**

X-rays and crystal structure, or some topic from the field of radio-activity or the passage of electricity through gases. 2 units.

M, 9; W F, 8-10.

POLITICAL SCIENCE

EDWARD M. SAIT, Ph.D., Assistant Professor of Politics, Columbia University.

C. E. MARTIN, Ph.D., Lecturer in International Law and Political Science.

J. R. DOUGLAS, Ph.D., Instructor in Political Science.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S121. The War and Democracy.

(DOUGLAS)

The meanings of democracy—political, economic, social. The status of democracy at the beginning of the war—civil liberties, political machinery, social and economic groupings, industrial organizations, international relations. The effect of the war upon democratic institutions. Proposed roads to fuller democracy: anarchism, socialism, sovietism; constitutional revision; class representation; labor participation in industrial management, and similar devices; the Fourteen Points and the League of Nations. 2 units.

M Tu W Th F, 9.

S110. Problems of Municipal Government.

(DOUGLAS)

Problems of organization: mayor, commission, and city manager plans; administrative departments; the civil service. Municipal home rule. Political problems: nominations and elections; the long ballot; the initiative, referendum and recall; party machinery. Problems of administration: public utilities, franchises, and municipal ownership; finance; police; education; health; city planning, and allied problems. 2 units.

M Tu W Th F, 10.

298A. Research.

(MARTIN, DOUGLAS)

The Department of Political Science offers unusual facilities for research in the fields of public administration and international relations. As a part of the activities of the regular sessions, the department conducts a Bureau of Public Administration and a Bureau of International Relations, with special libraries and trained secretaries. Both these bureaus will be open for use to properly qualified students of both summer sessions. In addition

the general facilities of the University Library are available. The department is prepared to direct research in other fields of Political Science as well as those mentioned above. (Hours and credit to be arranged.)

SUMMER SESSION COURSES

(June 31 to July 31, 1920)

S103. International Law.

(MARTIN)

An examination of the general principles of international law, including the laws of peace, war, and neutrality; international organization and coöperation; the judicial settlement of international disputes; the work of the Hague Conferences; the system of foreign mandates; new situations in international law growing out of the late war, as the submarine, war zones, mines, the use of asphyxiating gases, new departures in land and naval warfare, the discussion with Great Britain over neutral rights and commerce, the cases of the *Lusitania*, the *Fry*, the *Wilhelmina*, the *Appam*, the *Sussex*, the *Suffolk*, the *Ancona*, and the *Petrolite*; the extradition of the Kaiser and German military leaders; and points of international law covered in the treaty with Germany. 2 units.

M Tu W Th F, 1.

S105. The Diplomacy of the Great War.

(MARTIN)

The diplomatic background of the World War; the foreign policy of the great European powers; the system of alliances and the balance of power; the Triple Alliance; the Triple Entente; the theories and diplomacy of Bismarck; the political philosophy of Heinrich von Treitschke; economic and moral factors of German world policy; German land-hunger and desire for annexation; German military strategy; the Near Eastern Question; the Balkan Wars; the crisis of the year 1914; the diplomatic break; justification of resort to arms by the belligerent governments; the conduct of the war; American relations with belligerent powers; the intervention of the United States; the war aims of President Wilson; efforts of the central powers towards peace; the peace negotiations; the treaty of Versailles; the principle of self-determination; international administration of dependent peoples; the League of Nations; the British Empire at the close of the war; the policy of the United States under the League of Nations; Pan-Americanism and the Monroe Doctrine under the Covenant. 2 units.

M Tu W Th F, 10.

S108. The National Government of the United States. (SAIT)

The Constitution—its origin, evolution, and interpretation by the courts; the President—his election, his rôle as party leader, his executive powers, his relations with Congress; Congress—its powers, its composition, its methods of doing business; the political parties—their evolution, their character, their activities. 2 units.

M Tu W Th F, 9.

S119. The Government of France. (SAIT)

French political institutions as they exist today; the influence of parties in the functioning of the parliamentary system. 2 units.

M Tu W Th F, 11.

S298B. Research. (MARTIN, DOUGLAS)

A continuation of course S298A, which is, however, not prerequisite.
Hours and credit to be arranged.

PUBLIC HEALTH

- JOHN N. FORCE, M.D., Gr.P.H., Associate Professor of Epidemiology.
RICHARD A. BOLT, M.D., Gr.P.H., General Director, American Child Hygiene Association.
EDITH S. BRYAN, R.N., A.B., Assistant Professor of Public Health Nursing.
MARGARET I. BEATTIE, M.A., Instructor in Public Health.
MAY V. WALLACE, M.A., Secretary to the County Tax Collector, Los Angeles County.
JEANETTE N. GAY, M.A., Assistant in Bacteriology.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

Laboratory fees will be \$5.00 for the course in Elementary Bacteriology, and \$2.50 for the course in Public Health for Science Teachers.

In addition to the courses in this department, the attention of public health nurses is directed to the course in Food and Dietetics (Household Science S2) and the various courses in Public Speaking.

S1. Elementary Bacteriology.

(GAY)

An introductory course in bacteriology, including preparation of culture media, isolation of organisms and the methods of studying them. Some of the commoner disease producing bacteria will be considered briefly. 4 units.

M Tu W Th F: lectures, 1; laboratory, 2-5.

S3. Elementary Epidemiology.

(FORCE)

The sources of infection and methods of transmission of the principal communicable diseases. A study of representative epidemics together with control procedures which have become accepted as standard. Lectures and assigned readings. 2 units.

M Tu W Th F, 10.

4. Public Health for Science Teachers.

(BEATTIE)

A laboratory course in methods of presentation of public health to science classes. Designed to accompany the course in Elementary Epidemiology. 1 unit.

M Tu Th F: laboratory, 8-10.

5. The Panama Canal.

(FORCE)

The Panama Canal considered as an experiment in the sanitary conquest of the tropics. Personal impressions of the canal as a modern community. Lectures illustrated with lantern slides. 1 unit.

M W F, 11.

S104. Health Administration and Office Practice.

(WALLACE)

Health administration from the secretarial standpoint. The scope of federal, state, county, and municipal health supervision. Health department equipment. Relative values in health work. Health department surveys. Suitable cost and time distribution records as a guide for the executive. Laws and ordinances as a basis for procedure. Legal aspect of records. A study of the field procedure in each phase of health department work in relation to the record systems designed to serve as a daily index of the need for action along the various lines. The collection of data for statistical studies which shape the broader policies of the department. Graphic presentation of data in health reports and other publicity work of the secretary. Methods of handling correspondence. Classifying and filing information. 4 units.

M Tu W Th F: lectures and discussions, 1; supervised practice, 2-5.

105. Child Welfare.

(BOLT)

This course is designed for those who wish to gain a broad view of modern child welfare. It is not intended to train experts nor take the place of the regular course in public health nursing in the University. It will appeal to nurses, health visitors, social service workers and others who care to study child hygiene in its relation to public health. The course will cover the principal activities for child welfare from the prenatal period to adolescence. An attempt will be made to integrate these with other phases of public health and to define the duties of health officers, public health nurses, health visitors, and social service workers. The development of child welfare in this country will be outlined. Modern standards of child welfare will be considered. The organization of health centers will receive considerable attention. Lectures, assigned readings, discussions, and, as far as possible, field work in various types of child welfare will comprise the course. 2 units.

M Tu W Th F, 10.

106. School Hygiene.**(BOLT)**

This course will be adapted to school nurses, physical education instructors, principals, and teachers. The following topics will be considered: the object of health development in the educational system; public health aspects of school hygiene; organization and administration of health work in public schools, and the relation of school physicians, nurses, principals, and teachers to the same; the question of remediable defects of school children, and practical methods of correction; the detection and control of communicable diseases in the school; the value of dental clinics, nutrition classes and open air schools; the teaching of hygiene by practical demonstrations and the project method and coöperative possibilities between the health development department, home economics, physical education, and science. Lectures, assigned readings, discussions, and, where available, actual demonstrations with school children will make up this course. 2 units.

M Tu W Th F, 11.**109. Principles and Practice of Public Health Nursing.****(BRYAN)**

The study of forms of organization, need of organization, boards, committees, records, statistics, general and special work, coöperation with other agencies, conferences and plans of the daily routine in field and office. All nurses attending these lectures are urged to bring all blank forms used in their daily field and office work that all may secure the best points from each. This course is open only to those nurses who have had at least one year of practical public health nursing or to the graduates of an accredited course in public health nursing. 2 units.

M Tu W Th F, 8.**110. Social Problems and Fields of Public Health Nursing.****(BRYAN)**

A consideration of some of the outstanding problems of the nurse as a social worker and also some of the more common of the difficulties which must be met and overcome in the field; i.e., mental, moral, religious, social, and economic. This course will be conducted as a round table and the nurses will be encouraged to bring their daily difficulties for open discussion. This course is open only to those nurses who have had at least one year of practical public health nursing or to the graduates of an accredited course in public health nursing. 2 units.

M Tu W Th F, 9.

PUBLIC SPEAKING

EDWIN DU BOIS SHUTER, Ph.B., Professor of Public Speaking, University of Texas.

DWIGHT E. WATKINS, M.A., Assistant Professor of Public Speaking, University of California.

M. CATHERINE LYONS, M.O., Director of the Departments of English, Expression, and Dramatic Art, Maclean College of Music, Dramatic, and Speech Arts, Chicago, Ill.

FREDERIC MCCONNELL, Assistant Director of the Greek Theatre, University of California.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S2A. The Cultivation of the Speaking Voice. (WATKINS)

A study of the laws governing the speaking voice—breathing, voice placement, articulation, inflection, pause, force, rate, melody, rhythm, tone-color, etc. Practice in speaking, and in reading selections from standard literature. Individual deficiencies will be pointed out and methods for their correction prescribed. Discussion of problems confronting teachers of public speaking and literature in high schools. 2 units.

M Tu W Th F, 10.

S105A. Public Speaking. (WATKINS)

A consideration of methods of preparation and delivery in practical public speaking—outlining, means of amplification, psychology of speaker and audience, voice, and platform bearing. Frequent practice in actual speaking before the class. Designed for those who desire to improve their own speaking, and for teachers of public speaking in high schools. 2 units.

M Tu W Th F, 11.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S3A. Fundamentals of Expression and Interpretation. (LYONS)

A rapid review of the basic principles of correct voice production, followed by a series of carefully chosen exercises designed to

establish the close correlation of mind, body, and voice. Throughout the course special attention will be given to questions of method. 2 units.

M Tu W Th F, 3.

S6A. Extempore Speaking and Debate.

(SHURTER)

The principles and practice of effective public speaking. Particular attention will be devoted to the thought processes underlying successful public speaking and to the adaptation of the speech to particular conditions and audiences. 2 units.

M Tu W Th F, 10.

S107A. Advanced Interpretation: General and Special Problems.

(LYONS)

Open only to students who have had the equivalent of course S3A.

This course is planned to afford the maximum of advanced platform practice under the supervision and criticism of the instructor. 2 units.

M Tu W Th F, 4.

S118A. Acting and Stage Direction.

(McCONNELL)

Practice course in acting and play directing. One-act plays, and scenes from longer plays will be placed in rehearsal, the student being given the opportunity to act a part and to direct a rehearsal. The purpose of the course is to acquaint the student with the technic of character portrayal, the use of the speaking voice, the management of the body, and the direction of the general ensemble on the stage. 2 units.

M Tu W Th F, 2.

120. Technic of Stage Production.

(McCONNELL)

A survey of modern theatre production with special reference to the needs of the school centre. The course will include: (1) illustrated lectures on the subjects of stage decoration, lighting, and costume; (2) an examination of various plays by way of suggesting a repertory suitable for production by the schools, together with possible methods of staging them where only a minimum of equipment may be had. 2 units.

M Tu W Th F, 1.

S150A. Oral English.

(SHURTER)

A course intended primarily for teachers. It will include a survey of the problems that confront instructors in secondary schools and a discussion of possible methods of solution. Practice in speaking. 2 units.

M Tu W Th F, 9.

SANSKRIT

ARTHUR W. RYDER, Ph.D., Associate Professor of Sanskrit.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

The following courses do not require a knowledge of any Indian language. Together, they aim to give an outline history of Sanskrit literature, but either one of them may be taken independently.

S20. The Religions of Ancient India.**(RYDER)**

Lectures and reading. An outline of Vedic literature; the earlier forms of Brahmanism; the development of ritualism and philosophy; the revolt which found expression in Buddhism and Jainism, the struggle between Brahmanism and Buddhism, and the rise of Hinduism. 2 units.

M Tu W Th F, 2.

S21. The Classical Literature of Ancient India.**(RYDER)**

Lectures and reading. Outline of the great epics and of the classical literature, including the drama: The Mahābhārata, the Rāmāyana; the Kāvya's (minor epics); lyric and elegiac poetry; novels and romances; fables and epigrams. 2 units.

M Tu W Th F, 3.

SEMITIC LANGUAGES

MORRIS JASTROW, JR., Ph.D., LL.D., Professor of Semitic Languages, and Librarian of the University of Pennsylvania.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

103. The Old Testament in English: the Book of Genesis. (JASTROW)

A study of the Book of Genesis as literature, in the light of archaeology, and from the point of view of the historical and comparative study of religions. Chapters 1 to 11: the Creation, Paradise, and Deluge stories; early traditions of the beginnings of civilization in comparison with similar tales among other peoples, notably among the Babylonians. Chapters 12 to 50: selected readings from the stories of the Patriarchs and of Joseph, viewed as folklore, dating from various periods and with illustrations of life and customs among the early inhabitants of Palestine.

Textbooks: *Commentary on Genesis*, Skinner; *Hebrew and Babylonian Traditions*, Jastrow. Reference book, *Folk-Lore in the Old Testament*, Frazer. 1 unit.

M W, 11.

104. The Old Testament in English: the Book of Ecclesiastes.

(JASTROW)

Textbooks: *A Gentle Cynic*, Jastrow; *Ecclesiastes*, Barton.

F, 11.

In both courses, Professor Jastrow will read his own translations, giving, in the case of the Book of Genesis, the separation into documents. Courses in Hebrew, Arabic, and Assyrian will also be offered in the case of applications on the part of students sufficiently advanced to take these subjects.

Attention is called to the courses in the History of Religions announced by Professor Jastrow in the Department of History.

SPANISH

RUDOLPH SCHEVILL, Ph.D., Professor of Spanish.

CHARLES ALFRED TURRELL, A.M., Professor of Romance Languages, University of Arizona.

L. D. BAILIFF, Agricultural and Mechanical College of Texas.

GEORGE LAWRENCE, A.M., Head of Modern Language Department, Whitman College.

SIMÓN N. CÁCERES, C.E., M.L., Instructor in Spanish, San Diego High School and Junior College.

HELEN SCHENCK NICHOLSON, A.M., Instructor in Romance Languages, University of Arizona.

JOSEPHINE CUNEO, M.A., Assistant in Spanish.

INTERSESSION COURSES

(May 10 to June 19, 1920)

A. Elements of Spanish (Double Course). (CUNEO)

For beginners. Pronunciation, essentials of grammar, reading, conversation. Satisfactory completion of this course will give credit for matriculation subject 5c¹, provided the student has had no university course in Spanish. 4 units.

M Tu W Th F, Sec. 1, 9-11.

B. Advanced Elementary Spanish. (SCHEVILL)

Translation of prose and verse, rapid reading, conversation, conducted mainly in Spanish. Prerequisite: the elements of Spanish. Satisfactory completion of courses A and B will give credit for matriculation subject 5c². 2 units.

M Tu W Th F, 9.

S229. Graduate Work. (SCHEVILL)

Graduate students who desire advice and direction in their research work will be supervised in such study by Professor Schevill, who will make special appointments with them.

M W F, 10.

SUMMER SESSION COURSES*(June 21 to July 31, 1920)***A. Elements of Spanish (Double Course). (BAILLIFF, NICHOLSON)**

For beginners. Pronunciation, essentials of grammar, reading, conversation. Satisfactory completion of this course will give credit for matriculation subject 5c¹, provided the student has had no university course in Spanish. 4 units.

M Tu W Th F: Sec. 1, 9-11; Sec. 2, 1-3.

B. Advanced Elementary Spanish. (LAWRENCE)

Translation of prose and verse, rapid reading, conversation, conducted mainly in Spanish. Prerequisite: the elements of Spanish. Satisfactory completion of courses A and B will give credit for matriculation subject 5c². 2 units.

M Tu W Th F, 8.

S3. Elementary Conversation. (LAWRENCE)

Designed to enable the student to converse on the ordinary topics of daily life. Open to those who have had two years of high school Spanish or one year of Spanish in college. 2 units.

M Tu W Th F, 2.

6. Composition and Conversation. (CÁCERES)

Thorough review of the principles of Spanish grammar; practice in writing and speaking. Conducted in Spanish. Permission to enter must be obtained from the instructor. A limited number only can be admitted to the course and these will be selected from the whole number of applicants who have sent evidence of their qualifications to the Dean of the Summer Session before May 1. All applicants will be notified of the result of the selection on or before May 15. 1 unit.

M W F, 11.

Note.—Attempts will be made to arrange for Spanish tables where conversation in the language will be directed by instructors designated for the purpose. Applicants for such tables should communicate with the Dean of the Summer Session at the earliest possible moment.

S50. Commercial Spanish (Double Course).

(CÁCERES)

Vocabulary and business forms used in commercial transactions with Spanish speaking countries. Prerequisite: the equivalent of three years of high school Spanish or three semesters of college Spanish. No one will be admitted to this course who is taking in addition more than one 2-unit course in the Summer Session. A limited number only can be admitted and these will be selected from the whole number who have sent evidence of their qualifications to the Dean of the Summer Session before May 1. All applicants will be notified of the result of the selection on or before May 15.
4 units.

M Tu W Th F, 9-11.

S109. Spanish Literature of the Last Half-Century.

(TURRELL)

Rapid reading and discussion of representative works. Informal lectures and reports from the members of the class. 2 units.

M Tu W Th F, 2.

155. Problems of Teaching Spanish.

(TURRELL)

A course for teachers, including methods for intermediate and secondary schools. 1 unit.

M W F, 9.

S229. Graduate Work (Old Spanish).

(TURRELL)

Graduate students who desire advice and direction in their research work will be supervised in such study by Professor Turrell, who will make special appointments with them. 2 units.

M Tu W Th F, 10.

ZOOLOGY

CHARLES A. KOFOD, Ph.D., Sc.D., Professor of Zoology, and Assistant Director of the Scripps Institution for Biological Research.

J. FRANK DANIEL, Ph.D., Professor of Zoology.

FRANKLIN P. REAGAN, Ph.D., Assistant Professor of Zoology.

PIRIE DAVIDSON, M.A., Acting Instructor in Zoology.

TRACY I. STORER, M.S., Field Naturalist, California Museum of Vertebrate Zoology.

INTERSESSION COURSES

(May 10 to June 19, 1920)

S1b. General Zoology.

(DANIEL and Assistants)

A study of the behavior, structure, and development of animal types, with special reference to the lower vertebrates. This course may be taken in the Intersession before the student has had Zoology 1A. Laboratory deposit, \$5.00, of which \$3.00 will be retained and the balance, after deducting for breakage, refunded. 4 units.

Lectures, M Tu W Th F, 8; laboratory, 9-12.

S118. Advanced Undergraduate Work in Special Topics.

(Koroid)

Credit to be arranged.

S221. Seminar. History of Biological Thought.

(Koroid)

M W, 4-6. 1 unit.

S224. Research.

(Koroid)

Special opportunity will be afforded for research in protozoology and parasitology. A limited number of persons will be given facilities for study of the protozoan infections of the human digestive tract with practice in the detection, identification, preparation and culture of these parasitic organisms.

Credit to be arranged.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

S1A. General Zoology.

(DAVIDSON and Assistants)

An introduction to the facts and principles of animal biology, with special reference to the structure, functions and evolution of animal life. This course is the equivalent of Zoology 1A and fulfills the requirement for this course in the premedical and agricultural courses. Laboratory deposit, \$5.00, of which \$3.00 will be retained and the balance, after deducting for breakage, refunded. One lecture and three hours of laboratory daily. 4 units.

Lectures, M Tu W Th F, 8; laboratory, 9-12.

2. The Birds of California.

(STORER)

Life histories, habitat preferences, and relationships to human interests. How to identify our local birds. Lectures, museum work and field excursions. 3 units.

Lectures, M Tu W Th F, 8; museum work four hours per week, time to be arranged by sections; field work, S, 8-12.

S108. Embryology.

(REAGAN and Assistants)

The fundamental facts of reproduction, the early stages of development of vertebrates, the formation of organs, and the foetal membranes of mammals, including man. Laboratory study of preparations of chick and pig embryos. Lectures, demonstrations. Laboratory deposit, \$5.00, of which \$3.00 will be retained and the balance, after deducting for breakage, refunded. Prerequisite: Zoology 1A and 1B or their equivalents. 4 units.

M Tu W Th F, 8-12.

DIVISION OF VOCATIONAL EDUCATION**AGRICULTURAL EDUCATION**

- F. L. GRIFFIN, M.S., Associate Professor of Agricultural Education, Acting Chief of the Division of Agricultural Education.
- S. H. DADISMAN, M.S., Assistant Professor of Agricultural Education, Supervisor of Agricultural Teacher-training Center, University Farm, Davis.
- H. L. EBY, B.A., Lecturer in Education.
- C. L. ROADHOUSE, M.D.V., Professor of Dairy Industry.
- G. H. TRUE, B.S., Professor of Animal Husbandry.
- W. A. CAMP, A.B., Associate Professor of Rural Institutions.
- J. E. DOUGHERTY, B.S., Associate Professor of Poultry Husbandry.
- F. W. ALLEN, M.S., Assistant Professor of Pomology.
- D. H. CAREY, B.S., Assistant Professor of Agricultural Engineering.
- L. J. FLETCHER, B.S., Assistant Professor of Agricultural Engineering.
- W. E. LLOYD, B.S., Assistant Professor of Poultry Husbandry.
- W. P. TUFTS, M.S., Assistant Professor of Pomology.
- J. F. WILSON, M.A., Assistant Professor of Animal Husbandry.
- D. O. JENKINS, M.S., Assistant in Olericulture.
- J. C. MARQUARDT, B.S., Assistant in Dairy Industry.
- D. W. TUBBS, B.S., Assistant in Agricultural Engineering.
- W. S. WILKINSON, B.S., Assistant in Agronomy.
- D. T. BACHELDOR, Instructor in Animal Husbandry.
- H. L. BELTON, Instructor in Shop Work.
- C. V. CASTLE, B.S., Instructor in Animal Husbandry.
- R. C. INGRIM, Instructor in Shop Work.
- J. D. MILLER, Instructor in Agricultural Engineering.
- T. J. ROSEMAN, B.S., Principal, Boonville (Cal.) High School and Director of Vocational Agriculture.
- J. M. ALCORN, M.S., Director of Vocational Agriculture, Fullerton Union High School, Fullerton, Cal.
- SEDALIA CUBBISON, Instructor in English, Chaffey Union High School, Ontario, Cal.
- AGNES E. BROWN, A.B., Librarian.

TRADE AND INDUSTRIAL EDUCATION

- CHARLES L. JACOBS, M.A.**, Associate Professor of Industrial Education and Supervisor of Classes for Teachers of Trade and Industrial Subjects.
- LENNA M. ABERNATHY**, Assistant to Supervisor, Classes for Training Women Teachers of Trade and Industries, Oakland Center.
- JOHN L. KERCHEN, M.A.**, Instructor in Mathematics, Oakland Technical High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- BENJAMIN H. MORRISON, M.A.**, Instructor in Mechanics Art, Berkeley Public Schools; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- PERCY E. ROWELL, M.S., Grad. Ed.**, Instructor in Smith-Hughes Science, Oakland Technical High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- JAMES A. DAVIDSON**, Instructor in Printing, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- VIRGIL B. EVANS**, Instructor in Auto Practice, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- WALTER J. HUSTON**, Instructor in Woodwork, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- CHARLES A. MURPHY**, Instructor in Electricity, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- GEORGE C. POLSON**, Instructor in Mechanical Drawing, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.
- WILLIAM W. UPDEGRAFF**, Instructor in Machine Shop, Oakland Vocational High School; Instructor Teacher Training Classes, Trade and Industrial Education, Oakland Center.

COMMERCIAL EDUCATION

- FREDERICK C. NICHOLS**, Assistant Director for Commercial Education, Federal Board for Vocational Education, Washington, D. C.
- EARL W. BARNHART, B.L.**, Supervisor of Commercial Teacher Training, University of California.
- CASSIE PAINE SMALD**, Educational Director, Bon Marche, Seattle.

The courses here listed are designed primarily to prepare teachers for service in vocational schools and classes maintained under the provisions

of the State and Federal Vocational Education Acts, and the recent State Compulsory Part-Time Education Act, which becomes effective with the beginning of the school year 1920. Attention is called to courses of general interest in the field of vocational education and courses for superintendents, principals, and other administrative officers under the following headings in other parts of this announcement: Education, Agriculture, Commerce, Home Economics, and Economics.

The Federal Board for Vocational Education is coöperating with the University of California during the Summer Session by delegating Frederick C. Nichols, Assistant Director for Commercial Education, for a period of two weeks. For the formal participation in the Summer Session of Mr. Nichols, see announcement under Commerce. Mr. Nichols will be available for conferences with state officers of California and other states who desire to discuss the field of commercial education under the Smith-Hughes Act.

Special announcements, covering in detail the field of Agricultural Education and Trade and Industrial Education in the Summer Session, including courses, special conferences and lectures, as well as other matters of interest, may be obtained upon request by writing to the office of the Dean of the Summer Sessions.

SUMMER SESSION COURSES

(June 21 to July 31, 1920)

COURSES OF INSTRUCTION FOR TRAINING AGRICULTURAL TEACHERS

The following courses are offered at the University Farm, Davis, California.

AGRICULTURAL EDUCATION

SI106. Methods in Teaching Vocational Agriculture. (DADISMAN)
11-12 daily. 2 units.

SI108. Methods in Teaching the Supplemental Vocational Subjects:

108A. Farm Applications of Science. (———)
1-2 daily. 2 units.

108B. Farm Applications of Mathematics. (ROSEMAN)
7:15-8 a.m. daily. 2 units.

108C. Farm Applications of English. (CUBBISON)
Three weeks. June 21 to July 10. 11-12 daily. 1 unit.

108D. Rural Sociology. (———)
7-8 p.m. daily. 2 units.

108E. Farm Economics. (CAMP)
4-5 daily. 2 units.

- S115. **Special Topics in Agricultural Education.** (GRIFFIN)
5-6 daily. 2 units.
- S202. **Special Studies in Agricultural Education.** (GRIFFIN)
1 or 2 units.
- S299. **Thesis for the Master's Degree.** (GRIFFIN)

EDUCATION

129. **Principles of Teaching.** (EBY)
11-12 daily. 2 units.

AGRICULTURAL ENGINEERING

- A.E. S101. **Farm Forging (3 weeks) and Farm Buildings (3 weeks).**
(INGRIM, BELTON)
8-11 daily. 3 units.
- A.E. S102. **Gas Engines, Tractors and Automobiles.**
(FLETCHER, TUBBS, ———)
8-11 daily. 3 units.
- A.E. S103. **Farm Mechanics and Machinery.** (FLETCHER, TUBBS, ———)
1-4 daily. 3 units.

AGRONOMY

105. **Farm Crops.** (WILKINSON)
1-4 daily. 3 units.

ANIMAL HUSBANDRY

- S100. **Farm Animals—General Course.** (WILSON, CASTLE, BATCHELDER)
1-4 daily. 3 units.
104. **Dairy Husbandry.** (TRUE, CASTLE)
Three weeks. June 21 to July 10. 8-11 daily. 1½ units.

DAIRY INDUSTRY

- S136. **Dairy Manufacturing.** (ROADHOUSE, MARQUARDT)
Three weeks. July 12 to July 31. 8-11 daily. 1½ units.

POMOLOGY

- S108. General Pomology. (TUFTS, ALLEN)
8-11 daily. 2 units.

POULTRY HUSBANDRY

- S101. Poultry Husbandry. (DOUGHERTY, LLOYD)
1-4 daily. 3 units.

OLERICULTURE

- S101. Vegetable Gardening. (CAREY, JENKINS)
8-11 daily. 3 units.

COURSES OF INSTRUCTION FOR TRAINING TRADE AND
INDUSTRIAL TEACHERS

All courses are offered on the Campus of the University except S6, Industrial Practice for Supplemental Teachers, which will be held in shops and laboratories of the Public Schools of the East Bay region.

- S1. Trade Analysis and the Organization of Subject Matter for Trade
Work for Men. (MORRISON)
10-12 daily. 3 units.
- S1A. Trade Analysis and the Organization of Subject Matter for Trade
Work for Women. (ABERNATHY)
10-12 daily. 3 units.
- S2. Theory and Administration of Industrial Education. (KERCHEN)
10-12 daily. 3 units.
- S3. Content of Supplemental Trade Subjects. (ROWELL)
2-4 daily. 3 units.
- S4. Teaching in Part-Time Schools. (KERCHEN)
8-10 daily. 3 units.
- S5. Content and Method of Instruction for Supplemental Subject
Teachers. (ROWELL)
9-10 daily. Consultation period 10-11 daily. 2 or 3 units.
- S6. Industrial Practice for Supplemental Subjects Teachers.
(DAVIDSON, EVANS, HUSTON, MURPHY, POLSON, UPDEGRAFF)
2-5 daily. 2 units.

**COURSES OF INSTRUCTION FOR TRAINING COMMERCIAL
TEACHERS**

Ed. 165s. Commercial Education in Secondary Schools.

(NICHOLS, BARNHART)

This course is divided into three parts as outlined below, and two units will be given to those who do the work outlined under each of the three parts.

I. Organization and Administration of Commercial Education.

(NICHOLS)

June 21 to July 2. 8-9 daily.

II. New Phases of Commercial Education.

(NICHOLS)

June 21 to July 2. 7-8 p.m. daily.

III. Special Studies in Commercial Education.

(BARNHART)

July 5 to 16. 8-9 daily.

9. Business Procedure.

(BARNHART)

10-11 daily. 2 units.

S101A, B, C, D; and }
S300A, B, and C } **Methods of Teaching Commercial Subjects.**

(CARMAN, SPARKS, SULLIVAN, OTTO, KIRKER, MCKINSEY)

For time schedule see announcement under Commerce. 2 units each.

S202. Methods of Teaching Retail Store Service.

(SMALL)

11-12 daily. Laboratory work 9-11 in Oakland. 2 units.

This course is of special interest to those who wish to prepare for teaching salesmanship in part-time classes.

10. Store Service Training.

(SMALL)

8-9 daily. 2 units.

GRADUATE DIVISION**AT BERKELEY**

The Dean of the Graduate Division has been authorized to use his discretion in approving Intersession work other than that regularly announced for the Intersession, both for residence and units, if arranged for in advance by students of high standing. This year such courses have been listed as far as possible in the Intersession and Summer Session announcements. In addition to the courses listed, opportunity for advanced and graduate work will be offered for qualified students as follows: research in biochemistry; practice teaching, Physical Education 300, during the intersession.

Graduate Courses:

Agriculture (Intersession and Summer Session).

Agricultural Education 202, 299.

Agronomy 200.

Entomology 207.

Farm Management 203 (Intersession only).

Forestry 200.

Genetics 200.

Plant Pathology 230.

Pomology 201.

Chemistry (Intersession) S210.

Economics (Intersession) S200A; (Summer Session) S200B.

Education (Intersession) S298, S299; (Summer Session) S201, 260, 261, S298, S299.

English (Intersession) S219A; (Summer Session) S217, S219B.

French (Intersession) S212A, S299; (Summer Session) S212B.

Graphic Art (Summer Session) S228 A.

History (Intersession) 275A; (Summer Session) 275B.

Law (Summer Session) S224.

Mathematics (Intersession) S251; (Summer Session) S224, S215, S251.

Philosophy (Intersession) 213; (Summer Session) S220.

Physics (Intersession) S202.

Political Science (Intersession) S298A.

Spanish (Intersession) S229; (Summer Session) S229.

Zoology (Intersession) S221, S224.

Upper Division Major Courses:

- Agricultural Education** (Summer Session) S103, S105.
Entomology (Interession and Summer Session) 103, 163.
Anthropology (Summer Session) 101, 102.
Astronomy (Summer Session) S117.
Chemistry (Interession) S100; (Summer Session) S190.
Commerce (Summer Session) S120, S133, *S300b, *S300c, *S301A, *S301b, *S301c, *S301d, *S302.
Drawing (Summer Session) S101, S105.
Economics (Interession) S110, S123; (Summer Session) S150, S151, 195A, 192A.
Education (Interession) S102, S142; (Summer Session) S101, 104, 106, 115, 118, 119, S122b, 132, 133, 134, 135, 150, 151, 178.
English (Interession) S106, S102A, S114, 126; (Summer Session) S106A, S106b, S102b, 133, S117, S130, S145, S155.
French (Summer Session) 125, S112, S120, S117.
Geography (Summer Session) 160, 165.
Graphic Art (Summer Session) 110, 112, 113, S118A, S128A, S199.
Greek (Summer Session) 175.
History (Summer Session) 100, 101, 102, S143, S147, S174, S181, S182, 303; (Interession) S142A.
Home Economics:
 (Household Art) (Summer Session) 140, 150, S160, 172.
 (Household Science) (Summer Session) S112, S132, S300.
Latin (Summer Session) 188, 300A, 300B.
Law (Summer Session) S112.
Philosophy (Interession) S103D; (Summer Session) S101, S112, 155, S112, 155.
Physical Education (Summer Session) S101A.
Physics (Summer Session) *120, S105A.
Political Science (Interession) S121, S110; (Summer Session) S103, S105, S108, S119.
Public Health (Summer Session) S104, 106.
Public Speaking (Interession) 107A; (Summer Session) 105A, 107A, 150A, S118A.
Semitic Languages (Summer Session) 103, 104.
Spanish (Summer Session) S109, 155.
Zoology (Interession) S118; (Summer Session) S108.

* Accepted for High School Teacher's Recommendation only, provided that not more than one of these courses is offered.

DEPARTMENTAL ADVISERS FOR GRADUATE AND UNDER-GRADUATE WORK

Agriculture	F. L. GRIFFIN	303 Budd Hall
Anatomy	RUBY L. CUNNINGHAM	Infirmary
Anthropology	A. L. KROEBER	6 Museum
Astronomy	W. F. MEYER	Observatory
Biochemistry	W. R. BLOOR	200 Pathology
Chemistry	G. E. GIBSON	220 Gilman Hall
Civil Engineering	C. DERLETH, Jr.	204 Civil Engineering
Commerce	E. W. BARNHART	22 Wheeler Hall
Drawing	ROSS J. BROWER	301 Drawing Bldg.
Economics	STUART DAGGETT	22 Wheeler Hall
Education	W. W. KEMP or } R. S. FRENCH }	315 Library
English	R. W. GORDON	405 Wheeler Hall
French		
(Intersession)	P. B. FAY	464 Wheeler Hall
(Summer Session)	R. T. HOLBROOK	426 Wheeler Hall
Geography	R. S. HOLWAY	9 Bacon Hall
Graphic Art	P. W. NAHL	200 Drawing Bldg.
Greek	G. M. CALHOUN	474 Wheeler Hall
History	E. I. MCCORMAC	30 Wheeler Hall
Household Art	Miss HELEN W. FANCHER	300 Home Econom. Bldg.
Household Science	Miss DORIS A. DANIELS	206 Home Econom. Bldg.
Italian	R. ALTROSCI	426 Wheeler Hall
Journalism	C. V. DYMENT	24 Wheeler Hall
Latin	W. A. MERRILL	436 Wheeler Hall
	H. C. NUTTING	477 Wheeler Hall
Law	WM. CAREY JONES	Boalt Hall
Mathematics	D. N. LEHMER	417 Wheeler Hall
Mechanical and Elec- trical Engineering	H. B. LANGILLE	27 Mechanics Bldg.
Music	FREDERICK ALEXANDER	Hearst Mining Bldg.
Philosophy	C. I. LEWIS	452 Wheeler Hall
Physical Education	F. L. KLEEBERGER	Harmon Gymnasium
Physics	R. S. MINOR	201 South Hall
Political Science		
(Intersession)	J. R. DOUGLAS	119 Library
(Summer Session)	C. E. MARTIN	120 Library
Public Health		
(Summer Session)	J. N. FORCE	Hygiene and Pathology
Public Speaking		
(Intersession)	D. E. WATKINS	423 Wheeler Hall
(Summer Session)	E. D. SHURTER	423 Wheeler Hall
Sanskrit	A. W. RYDER	331 Wheeler Hall
Semitic Languages	MORRIS JASTROW, Jr.	30 Wheeler Hall
Spanish	R. SCHEVILL, } C. A. TURRELL }	427 Wheeler Hall
Zoology (Intersession)	C. A. KOFOID	208 East Hall

DIRECTIONS

Interession, May 10-June 19, 1920

1. **On or before Wednesday, April 21**, if possible, file application with the Recorder of the Faculties.
2. **Before Monday, May 3**, if possible, select lodgings in Berkeley.
3. **Saturday, May 8-Monday, May 10—Registration.** (a) Register your college address with the Recorder, California Hall, north end of corridor, second floor; (b) obtain from the Recorder an admission card and blank study card; (c) show your admission card to the Comptroller of the University (south end of corridor); (d) pay necessary fees, and (e) have your admission card stamped by the Comptroller; (f) this card to be shown on demand to the officers in charge of the classes, at the first meetings of the classes, or at any time during the session.

Students who can conveniently do so are advised to register with the Recorder and pay their fees to the Comptroller on Saturday, May 8, in order to gain time for consultation with their instructors and for other preliminaries on Monday. Fees may be paid from 8:30 a.m. to 12 m. on Saturday, and from 8:30 a.m. to 3 p.m. on Monday.

The regular class exeroises will begin Monday, May 10.

4. **Within one week** after registration your study card, duly filled out, should be returned to the Recorder. Auditors as well as students are required to file study-cards.
5. **To obtain a certificate of record**, showing the courses elected during the session and the grade attained in each, deposit a self-addressed stamped envelope with the Recorder at the close of the session, and a certificate will be mailed to you.

DIRECTIONS**Summer Session at Berkeley, June 21—July 31, 1920**

1. On or before **Wednesday, June 2**, if possible, file application with the Recorder of the Faculties.
2. Before **Monday, June 14**, if possible, select lodgings in Berkeley.
3. **Saturday, June 19—Monday, June 21—Registration.** (a) Register your college address with the Recorder, California Hall, north end of corridor, second floor; (b) obtain from the Recorder an admission card and blank study card; (c) show your admission card to the Comptroller of the University (south end of corridor); (d) pay necessary fees, and (e) have your admission card stamped by the Comptroller; (f) this card to be shown on demand to the officers in charge of the classes, at the first meetings of the classes, or at any time during the session.

Students who can conveniently do so are advised to register with the Recorder and pay their fees to the Comptroller on Saturday, June 19, in order to gain time for consultation with their instructors and for other preliminaries on Monday. Fees may be paid from 8:30 a.m. to 12 m. on Saturday, and from 8:30 a.m. to 3 p.m. on Monday.

The regular class exercises will begin Monday, June 21.

4. Within one week after registration your study card, duly filled out, should be returned to the Recorder.
5. To obtain a certificate of record, showing the courses elected during the session and the grade attained in each, deposit a self-addressed stamped envelope with the Recorder at the close of the session, and a certificate will be mailed to you.

OFFICE HOURS OF THE DEAN

The Dean of the Summer Sessions will keep office hours daily, except Saturday, 11–12, Room 105, California Hall.

CIRCULARS OF INFORMATION

For circulars of information concerning the several colleges and departments of the University, please write to the *Recorder of the Faculties, University of California, Berkeley, California*, mentioning the department or study in which you are interested.

[Application form on reverse side.]

APPLICATION FORM

Applications should, if possible, be filed with the Recorder of the Faculties, Berkeley, California, for admission to the Intersession, *on or before April 21*; for admission to the Summer Session, *on or before June 2*. They may be sent by mail. In case of adverse action by the Faculty upon an application for admission to the Summer Session, the applicant is notified immediately, by mail; in other cases no acknowledgment or other notice is sent. Additional application forms may be obtained by addressing the Recorder of the Faculties, University of California, Berkeley, California.

Expect to attend Intersession beginning May 10 at Berkeley

Expect to attend Summer Session beginning June 21, at
(Berkeley or Los Angeles)

Are you over 21 years of age? Your age, if under 21

High schools, academies, and colleges or normal schools attended, with periods and *dates* of attendance; also dates of graduation and degrees, if any. (Full information is desired. Write on reverse if necessary.)
.....
.....

U. C. Summer Sessions attended, years

Occupation

References

.....
(Names and addresses of school officers or others from whom information about you may be obtained)

Specify the summer courses in which you may desire to enroll—by department and *number*, e.g., Philosophy 1, English 114:
.....
.....

.....
(It must be understood that the University may find it necessary to make changes, either in the courses announced or in the schedule of hours)

Present address

Date,, 1920

Name (signed) in full:
(Avoid initials and other abbreviations)

Permanent P. O. Address

.....
(Where you should be addressed after the Summer Session)

University of California Bulletin

THIRD SERIES. Vol. XIII, No. 9

SUMMER SESSION

LOS ANGELES

June 21 to July 31, 1920

**UNIVERSITY OF CALIFORNIA PRESS
BERKELEY**

It is requested that all who receive this bulletin coöperate in extending the notice to others who may be interested in summer study; copies of this bulletin will be mailed upon request, by the Dean of the Summer Sessions, University of California, Berkeley, California.

MONROE STREET

HELIOTROPIC DRIVE

POPLAR CIRCLE

WILLOWBROOK AVENUE

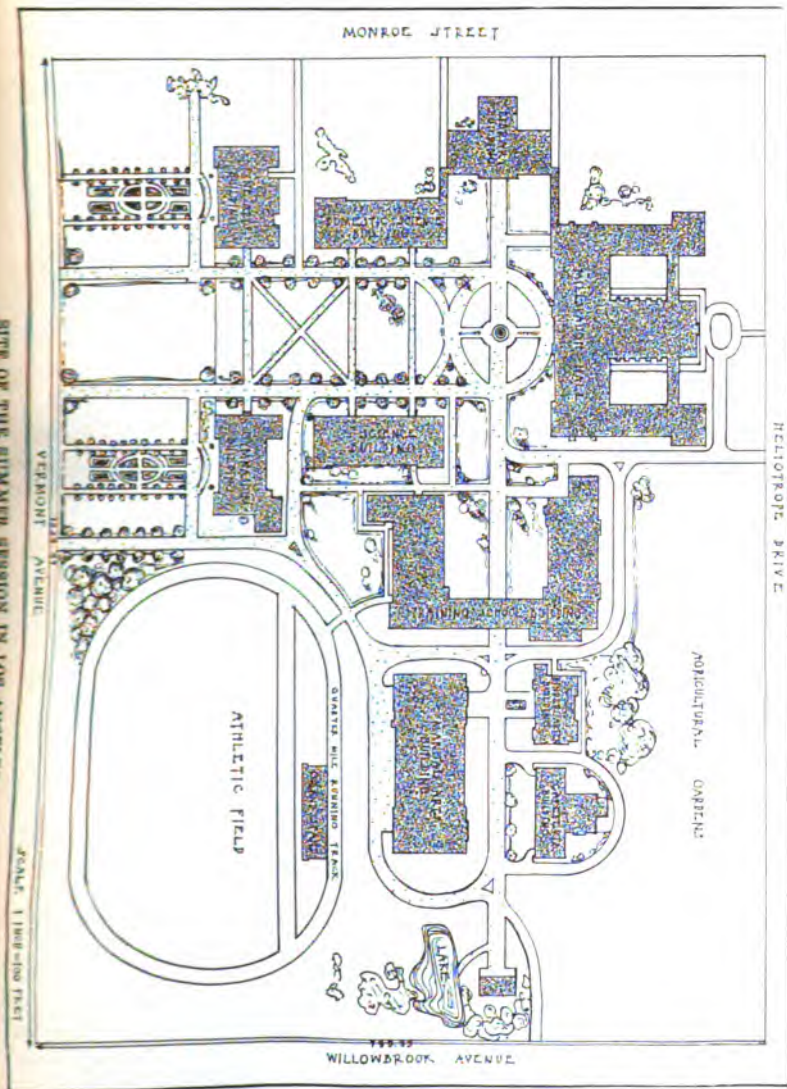
ATHLETIC FIELD

QUARTER MILE RUNNING TRACK

SITE OF THE SUMMER SESSION IN LOS ANGELES

SCALE: 1 INCH = 100 FEET

VERMONT AVENUE



SUMMER SESSION

LOS ANGELES, 1920

In conformity with the declaration of purpose by the Board of Regents, the University of California established in 1918 the *Summer Session in Los Angeles*. The success of the experiment led to the decision



MILLSPAUGH HALL

of the Board to continue the session thus created. The instruction will be given again in the group of buildings of the Southern Branch of the University of California (formerly the Los Angeles State Normal School).

Session of 1920.

The third annual session will begin Monday, June 21, 1920, and will continue until Saturday, July 31, a period of six weeks. During the same period the University will also conduct its Summer Session in Berkeley. An intersession will be conducted in Berkeley from May 10 until June 19, 1920.

In the Los Angeles Summer Session of 1918 the number of students registered was 630. In 1919 the number registered was 894; of these 765 came from California, 129 from other states or countries.

Purpose of the Session.

The courses in the Summer Session are designed to meet the needs of the following persons:

1. Teachers who wish to increase their professional skill, to revise and extend their knowledge of a chosen field, or to qualify in new subjects, preparing to meet the special demand for instruction in various departments. (With state and federal aid, under the Smith-Hughes Act, special Summer Session courses are offered at the University Farm, Davis, for those preparing to teach vocational agriculture and the supplemental vocational subjects in California high schools.)

Teachers who desire to be prepared for service in vocational schools and classes maintained under the provisions of the State and Federal Vocational Education Acts, and the recent State Compulsory Part-Time Education Act, which becomes effective with the beginning of the school year 1920. The courses designed primarily for this purpose are listed on pages 76 and 77 of this bulletin.

2. School superintendents, supervisors, and other officers.

3. Graduate students, to whom the advantages of smaller classes and the more direct and intimate personal contact with the professors in charge are peculiarly possible during the Summer Session. Residents of Los Angeles and vicinity may continue studies leading to higher degrees without making the journey to Berkeley.

4. Undergraduate students, and especially those registered in the fall or spring sessions of the University, whose homes are in the southern part of the state, may use a portion of the vacation to take up studies for which they are unable to find room in their regular programmes, or to make up deficiencies, or to shorten their courses.

5. Properly recommended high school graduates who are about to enter upon regular university courses and who desire to broaden their preparation for university work.

6. Housewives, graduate nurses, social workers, Americanization workers, students of public health, and all adults who are qualified to pursue with profit any course given, whether or not they are engaged in teaching or study.

Faculty.

The faculty of the Summer Session will include not only members of the regular faculties of the University, but also a number of men of letters and science from Eastern universities.

Applications for Admission.

All persons who desire to attend any of the courses are urgently requested to notify the Recorder of the Faculties on or before Wednesday, June 2, using the blank form of application at the end of this

bulletin. Compliance with this request will facilitate the making of adequate arrangements by the University, and will make possible prompt communication with prospective students in case of change in the programme.

Admission Requirements.

Attendants upon the exercises of the Summer Session are divided into two broad classes:

A. *Auditors*.—Any adult of good moral character is permitted to attend all the regular exercises of the session, as an auditor, upon the filing of an application and the payment of the regular tuition fee of twenty dollars. This may be done by mail. An auditor does not participate in recitations, does not take examinations, and does not receive formal credit on the books of the University either for attendance or for any study or investigation which he may undertake.

B. *Students*.—While there are no formal admission requirements and no entrance examinations, the officers in charge of admissions will keep in mind the fact that the instruction offered is such as is suitable for students of university grade, and these officers will exercise their discretion in admitting to student privileges only those applicants who appear to possess the requisite maturity, training, and intelligence. Furthermore, the instructor in charge of a given course may himself require of those who present themselves as students in this course any preliminary test, formal or informal, which he may deem essential to the work proposed.

The University will not, as a rule, admit to the Summer Session pupils from the high schools who have not yet completed the four-year high school course. Where an exception is made to this general rule, the pupil will be required to devote himself to courses given primarily or exclusively for matriculation credit, such as the "A" or "B" courses in chemistry, physics, mathematics, drawing, stenography, typewriting, bookkeeping, and the languages. And in every such exceptional case the applicant will be required to procure from the principal of his school, and to present at the University a special testimonial, as evidence of superior scholarship and of unusual fitness for the work proposed. A blank form of testimonial for the principal's use may be obtained from the Recorder of the Faculties. Only by special arrangement made in advance may Summer Session courses other than the "lettered courses" be applied toward matriculation.

Registration Dates.

The office of the Recorder of the Faculties will be established in Millspaugh Hall, Southern Branch of the University, and will be open

for the registration of students Saturday, June 19, and Monday, June 21. For detailed directions as to entrance see page 84.

With the approval of the Dean, teachers whose regular employment makes it impossible for them to register on the first day (Monday) may register as late as the second Monday, but such students may enroll in the courses desired only when, in the opinion of the instructor, they have satisfactorily covered the ground of the first week's work.



THE GYMNASIUM

Fees.

The tuition fee will be twenty dollars (\$20 regardless of the number of courses taken. Laboratory fees will be charged in courses in agriculture, chemistry, civil engineering, home economics, physics, and typewriting. The fees in each case are stated in the description of the courses.

Persons desiring to attend courses or occasional lectures without examination or formal credit may secure for this purpose an auditor's ticket upon payment of the regular fee (\$20).

All fees must be paid in advance, at the opening of the Summer Session, at the office of the Comptroller in Millspaugh Hall, Southern Branch of the University. No deduction will be made from fees by reason of late registration. After the first week no rebate will be allowed for withdrawal. *No application for refund will be considered unless it is made at the time of withdrawal.*

Special Summer Session scholarships equivalent in value to the Summer Session fee will be granted by the California State Board of Education to teachers, or prospective teachers, of vocational agriculture in the California high schools. Such scholarships are good only for the special teacher-training courses at the University Farm at Davis. Application for scholarships should be made in advance to the State Supervisor of Agricultural Education, State Department of Education, Sacramento, California.

Classification and Numbering of Courses.

CLASSIFICATION.

1. Undergraduate Courses.
 1. Lower Division Courses.
 2. Free Elective Courses.
 3. Upper Division Major Courses.

A major course is an upper division course of advanced work in a department of study that has been pursued in the lower division, or of elementary work in a subject of such difficulty as to require the maturity of upper division students. All major courses are definitely announced as such, and are given the numbers 100-199, as explained below.

NUMBERING.

Undergraduate courses are designated either by letters, without numbers, or by numbers. The "lettered courses," e.g., Chemistry A, Physics A, are equivalents, or nearly so, of subjects in the University preparatory list; they represent subjects of study which may be pursued either in the high school or in the University. All other undergraduate courses, excepting only the major courses, are numbered from 1 to 99 inclusive.

All Summer Session courses, graduate or undergraduate, which are identical, or nearly so, with courses given during the fall or spring sessions, are distinguished by the letter "S" prefixed to the regular number of the course.

Undergraduate major courses are numbered from 100 to 199 inclusive.

Graduate courses are numbered from 200 to 299 inclusive.

Teachers' courses are numbered 300, 301, etc. Such courses may be classified either as upper division major courses or as graduate courses; however if offered for the master's degree, such courses are rated as upper division major courses, not as graduate courses.

Credit.

Credit toward a university degree will be given only to attendants who are qualified to do systematic university work, and is in every case subject to the requirement that the student shall at some time qualify in the University as a regular matriculant, either by passing the entrance examinations or otherwise. In the absence of formal entrance requirements, the instructor in charge of a given course in the Summer Session is the judge of the qualifications of candidates for credit.

In general, credit will be given at the rate of one unit for fifteen exercises. A course of five recitations or lectures weekly during six weeks may receive a credit of two units. Credit may be given, in due proportion, for a smaller number of exercises, when these are of more than the usual length (which for lectures and recitations is about fifty minutes). A recitation or lecture presupposes about two hours of study outside of the classroom; laboratory or other exercises which do not require outside preparation are estimated at a lower rate than recitations or lectures.

If in a given course a final examination is required by the instructor, there can be no individual exemption from this examination. A student who fails to pass the examination does not receive credit for the course. It should furthermore be noticed that special examinations and reexaminations in summer courses are not provided.

The maximum amount of credit obtainable during the session by a student who devotes his entire time to the work is six units. A bachelor's degree represents 124 or more units of credit, distributed according to the special requirements of the college or department in which the student is enrolled. For the master's degree there are required twenty units, including a thesis, which may count from two to four units. The courses must be graduate courses or undergraduate major courses. At least eight of the twenty units, including the thesis, must be strictly graduate work in the major subject. The work for Ph.D. and other doctor's degrees is not estimated in units of credit, and must be specially planned for every candidate. There are normally required four years of university residence for a bachelor's degree, one year for a master's degree, and at least two years for a doctor's degree; and while advanced credit is given for work done at other universities, the candidate's final year of residence for any degree must be spent in the University of California.

Two Summer Sessions are accepted as the equivalent of one half-year of residence for any degree; but the amount of credit (the number of units) that may be completed during two Summer Sessions will not exceed three-fourths of the amount that could be completed during a single fall or spring session.

In every case students desiring credit for major or graduate courses should make definite arrangements therefor with the instructor at the beginning of the session. The specific courses which will be recognized as major or graduate courses toward a higher degree are announced in later pages of this bulletin. Students electing work in the Summer Session as part of a programme for a higher degree should consult the Announcement of the Graduate Division for information regarding facilities and departmental requirements. Graduate students should consult, also, the Dean of the Graduate Division.



THE LIBRARY

The University issues formal Recommendations for Teachers' Certificates only to those who hold a bachelor's degree. Certificates of record for Summer Session work, whether of matriculation or of university grade, will be issued by the Recorder of the Faculties, upon application of any student in the session; and personal recommendations from instructors may be obtained by school officers and other inquirers through the office of the Appointment Secretary at Berkeley.

There will be no general period of final examinations. The matter of examinations for credit will be left in the hands of the instructors, who may use the regular recitation hours for that purpose, or may hold examinations at other times, to be arranged with their classes. No examination is to be held except at a time which will make it possible for all members of the class to attend without conflict with other University appointments; special examinations to suit the convenience of individuals are not permitted.

Students who apply for credit in any course will be expected not only to complete all the work and examinations of the course but also to continue in regular attendance upon the class exercises until the *close of the session*; and students will be required to hand in all their work by that time, in order that the instructor may make his report in due season. Students are not authorized to continue any part of the work beyond the close of the session. No provision is made for reexaminations or supplementary work for the removal of deficiencies.

Graduate Division.

On June 19 Professor Armin O. Leuschner, Dean of the Graduate Division of the University, will hold office hours at Millspaugh Hall, Southern Branch, from 9 a.m. to 12 m., for conference with candidates for the master's or doctor's degree, or for the High School Teacher's Recommendation, and with others who desire information with reference to graduate study.

He will remain in Los Angeles during the week June 21 to 25 inclusive, and will keep office hours each day from 9 a.m. to 12 m. at Millspaugh Hall.

All those having questions relating to graduate study are urged to confer with Dean Leuschner during the period indicated. After June 25 inquiries with reference to higher degrees should be directed to Dean Monroe E. Deutsch, and those pertaining to the High School Teacher's Recommendation to Professor Robert J. Leonard.

Accommodations and Expenses.

There are many boarding houses and private homes in Los Angeles where students can obtain room and two meals at prices ranging from \$35 to \$50 per month. There is a cafeteria at the Southern Branch. A list of places offering board and room or either alone will be ready for distribution at the office of the Summer Session in Los Angeles, 417 Union League Building, Los Angeles, by May 25. Copies will be mailed on request. Every possible assistance will be given to strangers in their search for suitable boarding places.

The following table will enable the student to form an estimate of the expenses, exclusive of railway fare, to be met in attending the six weeks of Summer Session:

University tuition fee	\$20- 20
Laboratory fees (according to courses taken)	00- 12.50
Board and room, six weeks	50- 80
Textbooks and stationery	5- 15
Laundry	5- 12
Total	\$80-139.50

The Students' Store carries all text books for Summer Session courses, as well as stationery and other supplies.

Railroad Rates for the Summer Session.

At the time this bulletin goes to press, no official announcement by the railroads with reference to reduced rates is yet possible. It is generally anticipated, however, that the pre-war excursion rates will be reestablished. Prospective students of the Intersession or Summer Session are urged to secure definite information at railroad offices with reference to summer rates from their respective cities.

Library.

Throughout the Summer Session the Library will be open daily from 7:45 a.m. to 6 p.m., Monday to Friday, inclusive, and from 8 a.m. to 1 p.m., Saturday.

Full library privileges, including the home use of books, as accorded to regular University students, will be extended to those students in the summer courses who register at the library, without additional fee.

Summer Session Californian.

The SUMMER SESSION CALIFORNIAN is issued twice each week throughout the session. In addition to Summer Session news, it contains announcements of lectures, concerts, exhibits, meetings of University organizations, and general information of interest to visitors. It will be mailed to any address for the six weeks of the Summer Session for 25 cents, payable with other fees at the office of the Comptroller.

University Meetings.

Meetings of the entire membership of the Summer Session will be held in the Auditorium, Millspaugh Hall, each Monday; members of the faculty and visitors will be the speakers. These gatherings are open to the general public. The hour of the meeting will change from week to week; the following is the schedule:

Monday, June 21—11 a.m.	Monday, July 12— 3 p.m.
Monday, June 28— 2 p.m.	Monday, July 19— 1 p.m.
Monday, July 5— 9 a.m.	Monday, July 26—10 a.m.

Special Lectures.

During the session of 1919 there were many special lectures by members of the faculty and by distinguished visitors. Some were delivered at the Summer Session, others in an auditorium in the central portion of Los Angeles. Plans for a similar series are under way for this year's session.

Excursions.

The neighborhood of Los Angeles offers unusual opportunities for combining recreation with serious study. Bathing facilities are afforded by the beaches which dot the neighboring coast line; a network of automobile drives covers all southern California; week-end excursions are possible to the old Missions of California, to Mt. Lowe and to Mt. Wilson with their observatories, to Catalina Island with its submarine gardens and its fishing, to Santa Barbara and Riverside, to Pasadena and San Diego, to Bear Lake and other mountain resorts, to La Jolla Biological Station, to the moving picture plants and the famous La Brea fields.

The University of Southern California.

The fifteenth annual Summer Session of the University of Southern California will begin Monday, June 28, at the College of Liberal Arts, University Avenue and Thirty-fifth Street, Los Angeles. Special lectures given by members of the summer faculty and notable visitors in Los Angeles are open to the general public, as well as to all students of the session. This year a large number of the regular professors of the University of Southern California will offer courses in the Summer Session. In addition to these there will be visiting professors and instructors, including educators from leading American institutions and experienced school administrators of California. Among the visiting members of the 1920 summer faculty are: J. Duncan Spaeth (English), Princeton University; Samuel Vasconcelos (Spanish), University of Minnesota; J. Salwyn Schapiro (European History), College of the City of New York; W. H. Hollingsworth (Political Science), Washington University; Mary Strawn Vernon (Music), Columbia School of Music, Chicago; Howard E. Simpson (Geographic Geology), University of North Dakota; Mary B. Hyde (Arts and Crafts), Pratt Institute, New York; Allen M. Kline (History), College of the Pacific. The Summer Session Bulletin may be secured upon application to the office of the Registrar. Phones: 25113; West 621.

Southern California Public School Music Teachers' Association.

The summer meeting of the Southern California Public School Music Teachers' Association will be held in Los Angeles on Saturday, June 19.

Site and Climate.

Los Angeles, the chief city of southern California, is situated about eighteen miles north of San Pedro Bay, and about the same distance east from the Pacific Ocean. To the north of the city rises the San Gabriel

Range of mountains. The attractions of the beautiful sea-coast and mountain country, all easily accessible from the city, are well known.

The climate of Los Angeles is the result of the combination of three factors: the southern location of the city, its nearness to the ocean, and the presence of the mountain range on the north. Its southern location causes moderately high summer temperatures. These, however, owing to the protection afforded by the mountains, never reach the extremes found in the interior beyond the range. The highest temperatures for June, July, and August average about 70°, 75°, and 81°, respectively, while not infrequently the thermometer in the warmest part of the day may reach 90° and 95°. Owing to the prevailing summer wind from the ocean, the humidity is usually fairly high. The nights, on the other hand, are usually cool. During the summer months, morning fogs are frequent, but are almost always dissipated early in the forenoon. Contrasting with these effects of the ocean influence, occasional north winds bring air of high temperature over the city, but the dryness of the air keeps it from being either oppressive or debilitating. Altogether, the summer climate of Los Angeles, while warmer than that of many places farther up the coast, nevertheless is not without the charm of a moderate changeability coupled with a large amount of bright, sunny weather, and with an absence of rainfall which makes possible many out-door activities without interruption by the weather.

Location and Car Connections.

The grounds of the Southern Branch of the University cover approximately twenty-five acres, bounded on the east by Vermont Avenue, on the west by Heliotrope Drive, on the south by Monroe Street, and on the north by Willowbrook Avenue. It is a short four-minute walk from the car lines to the Southern Branch. Both the Los Angeles Railway (the yellow cars) and the Pacific Electric Railway (the red cars) run within a block of the buildings. Students coming from the city of Los Angeles can reach the Southern Branch in about half an hour by taking the Heliotrope Drive car, marked "State University" (the yellow car), which runs south on Broadway and turns at Seventh Street, or by taking the Santa Monica Boulevard, the Crescent, the Sherman, or the Highland cars (red cars), which leave the Pacific Electric station at Fifth and Hill streets and run north on Hill. Since all the Los Angeles Railway car lines transfer to the Heliotrope Drive line, the Southern Branch can be reached from any part of the city by that line. Those coming from the beaches can take the Santa Monica car line of the Pacific Electric Railway or transfer to it, and reach the Southern Branch in about three-quarters of an hour.

Buildings and Equipment.

The ten buildings which comprise the Southern Branch group are situated around a court and constructed of dark red, ruffled brick, with clay tile roofs, and artificial stone trimmings. The style of architecture is reminiscent of the Lombardy style found in northern Italy. The Southern California chapter of the American Institute of Architects awarded its first annual medal to the group.



THE SCIENCE BUILDING

The administrative building, Millspaugh Hall, contains the offices of the administrative officers and faculty, class rooms where most of the Summer Session classes will be held, a book store where the required text books and works of reference may be procured, and lockers and rest rooms for the students. Opposite the main entrance, in the central portion of the building, is the auditorium with a seating capacity of 1650; it possesses a completely equipped stage and dressing rooms. The halls are cool and will be very comfortable in the summer. They are provided with bulletin boards upon which announcements of special lectures will be placed.

The library is housed in a separate building. There is also a Domestic Science building with modern equipment, and a Science building which contains the physics and chemistry laboratories. In the Fine Arts building there are rooms for music and an auditorium and stage for

musical productions on the first floor, and art studios, work- and supply-rooms, offices, and a large exhibition gallery on the second floor.

The Gymnasium building contains the main gymnasium hall, as well as lockers, showers, and dressing rooms.

The Cafeteria building has a large dining hall and complete kitchen and serving facilities. It will be ready for the use of the Summer Session students at the beginning of the session.

The grounds are very attractive. They contain lawns, gardens, fountains, and four ample tennis courts together with excellent conveniences for track and field athletics.

Library Building.

The Library building contains a reading room accommodating 400 readers. There are now 31,000 volumes and 8000 pamphlets on its shelves, as well as about 6500 bound volumes of literary and educational journals. This collection will be augmented by loans from the University Library in Berkeley, the State Library in Sacramento, and the Public Library and the County Library in Los Angeles. Where necessary, books of reference will be purchased by the Summer Session for the use of its students.

Information.

Information concerning the session may be secured at 417 Union League building, Second and Hill streets, Los Angeles, which is now open daily (telephone 60072 or Pico 3621), or the Information Desk in Millsbaugh Hall at the Southern Branch of the University, which will open with the Summer Session. Inquiries may also be directed to the Dean of the Summer Session in Los Angeles, 105 California Hall, Berkeley.

THE UNIVERSITY

The University of California (founded in 1868) is by the terms of its charter an integral part of the educational system of the state. At Berkeley are the Colleges of Letters and Science, Commerce, Agriculture, Engineering and Chemistry; the Schools of Architecture, Education, and Jurisprudence, and the instruction of the first two years in the Medical School; at Mount Hamilton is the graduate Astronomical Department, founded by James Lick; in San Francisco are the Colleges of Law, Medicine (third, fourth, and fifth years), Dentistry, and Pharmacy; in Los Angeles is the Los Angeles Medical Department and the Southern Branch of the University, which includes teachers' courses, and a junior college; at Riverside is the Graduate School of Tropical Agriculture; at La Jolla is the Scripps Institution for Biological Research; at Davis is the University Farm; and at Swanton, the Summer School of Surveying. The University's income 1918-19 for all purposes amounted to \$4,252,110.35. The University is indebted to Mrs. Phoebe A. Hearst for permanent building plans, upon a scale appropriate and comprehensive. At Berkeley there are 385 principal officers of instruction and administration, together with assistants numbering about 500; forty-four departments of instruction; about 14,313 students in 1919-20, including students in the Summer Session of 1919, a library of 400,000 volumes aside from the volumes in the Bancroft collection; museums and laboratories; also the agricultural experiment grounds and station, which are invaluable adjuncts of the farming, orchard, and vineyard interests of the state. In San Francisco there are 265 officers of instruction, including demonstrators and other assistants; 617 students in 1919-20. In Los Angeles there are at the Southern Branch 102 officers of instruction and administration, 225 students in the Junior College and 1320 in the teachers' courses. Tuition in the academic departments of the University, during the fall and spring sessions, is free to residents of California; non-residents pay a fee of \$10 each half-year. Instruction in all of the colleges is open to all qualified persons, without distinction of sex.

FACULTY OF THE SUMMER SESSION LOS ANGELES

DAVID PRESCOTT BAILEWS, Ph.D., LL.D., President of the University.
WALTER MORRIS HART, Ph.D., Professor of English Philology; Dean of the Summer Sessions.

MONROE EMANUEL DEUTSCH, Ph.D., Associate Professor of Latin; Dean of the Summer Session in Los Angeles.

JOY MONTGOMERY, M.A., Instructor in English; Assistant Dean of the Summer Sessions.

JAMES SUTTON, Ph.B., Recorder of the Faculties.

WILKIN A. MOORE, B.L., Representative of the Summer Session in Los Angeles.

JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics, Southern Branch. A.B., Harvard, 1903; A.M., Harvard, 1905; Ph.D., Harvard, 1907; Assistant in Physics, Harvard, 1904-08; Instructor in Physics, Simmons College, 1907-08; Professor of Physics, Occidental College, 1909-12; Assistant Professor of Physics, Queen's University, 1912-16; Assistant Professor of Physics, University of Saskatchewan, 1916-19; Associate Professor of Physics, Southern Branch, University of California, 1919-.

W. ALLEN, A.B., Dean, School of Journalism, University of Oregon. A.B., University of Wisconsin, 1901; active in various branches of journalism and publishing, 1904-12; Professor of Journalism, University of Oregon, 1912-; Dean, 1917-.

MA M. ALLEN, Instructor in Commercial Practice, Southern Branch. Instructor, Westlake School for Girls, 1913-15; Los Angeles City Night Schools, 1914-16; Instructor in Commercial Practice, Los Angeles State Normal School, 1915-19; Instructor in Commercial Practice, Southern Branch, University of California, 1919-.

ARTHUR CHARLES ALVAREZ, B.S., Associate Professor of Civil Engineering and Director of the Summer School of Surveying.

ROCKTON AXSON, Litt.D., L.H.D., Professor of English, Rice Institute, Houston, Texas.

B.A., Wesleyan University, 1890; M.A., Wesleyan University, 1892; Litt.D., University of Pittsburgh, 1902; L.H.D., Wesleyan University, 1906; Instructor and Assistant Professor, University of Vermont, 1892-94; Staff Lecturer, University Extension Society, 1894-95; Head of English Department, Adelphi College, Brooklyn, 1896-99; Professor of English, Princeton University, 1899-1913; Head of English Department, Rice Institute, Houston, Texas, 1913-.

* In the Summer School of Surveying, Camp California, Swanton, Cali-

GEORGE BOAS, Ph.D., Assistant Professor of Forensics.

A.B., A.M., Brown University, 1913; A.M., Harvard University, 1915; Ph.D., University of California, 1917; Instructor in Public Speaking, University of California, 1915-17; 1st Lieut. Infantry, U. S. Army, 1917-19; Associate Editor of the *Home Sector*, 1919; Assistant Professor of Forensics, University of California, 1919-.

BENJAMIN PARSONS BOURLAND, Ph.D., Professor of Romance Languages, Western Reserve University.

A.B., University of Michigan, 1889; A.M., University of Michigan, 1890; Ph.D., University of Vienna, 1897; Instructor in French, University of Michigan, 1892-95; Instructor in Romance Languages, University of Michigan, 1898-99; Assistant Professor of Romance Languages, University of Michigan, 1899-1901; Associate Professor of Romance Languages, Adelbert College, Western Reserve University, 1901-03; Professor of Romance Languages, Western Reserve University, 1903-. Editor *The Rimed Chronicle of the Cid* (1912).

LOUIS F. D. BRIOIS, A.B., Instructor in French, University Extension Division.

Diplômé de Notre-Dame, France, 1888; A.B., University of Southern California, 1917; Head, French Department, Syracuse High School, Syracuse, N. Y., 1896-1914; Instructor, University of Syracuse, Summer Session, 1913; Instructor in French, University of Southern California, Summer Sessions, 1917, 1918.

ARTHUR GILCHRIST BRODEUR, Ph.D., Assistant Professor of English Philology.

A.B., Harvard, 1909; M.A., Harvard, 1911; Ph.D., Harvard, 1916; Instructor in English Philology, University of California, 1916-18; Assistant Professor of English Philology, University of California, 1918- Translator of "The Prose Edda" by Snorri Sturluson.

HAROLD LAWTON BRUCE, Ph.D., Associate Professor of English Composition.

B.L., University of California, 1908; M.L., University of California, 1911; Ph.D., Yale University, 1915; Instructor in English, Yale University, 1915-16; Assistant Professor of English Composition, University of California, 1916-19; Associate Professor of English Composition, University of California, 1919-. Publications: "Voltaire on the English Stage."

FELIX S. CABELLO, A.B., Instructor in Spanish, Johns Hopkins University.

A.B., Madrid University, 1900; Academia de lenguas vivas, Madrid, Spain, 1903-05; Instructor in Spanish, Lawrenceville School, 1917; Instructor in Spanish, Johns Hopkins University, 1919-. Publications: "Columbus, a Spaniard."

RAYMOND J. CASEY, Instructor in Woodshop, Lincoln High School, Los Angeles Center, Division of Vocational Education.**JOHN COLLIER, Director of Americanization and Community Institutes, Extension Division; Director of Immigrant Education, State Commission of Immigration and Housing.**

Student of biology at Columbia University, and of psychology at College de France; 1906, on Continent and in England and Ireland, studying coöperative and labor movements; 1908-11, study of public and commercial recreation in Europe and America, with especial reference to the theatre; 1910, founded National Board of Review of Motion Pictures; associated with Charles Sprague Smith in People's Institute, New York; 1912, arranged first experimental community center, New York; 1915, founded, with Luther Gulick, National Community Center Association; at present President of National Community Center

Association; founder and director, Training School for Community Workers, New York; Executive Member, Community Councils of New York; Chairman, Section of Community Organization, National Social Unit Organization; former Associate Secretary, National Committee on Constructive Immigration Legislation; former Director of Health Community Councils of New York; member General Board, National Child Health Organization; Advisory member, Educational Committee of United Labor Education Committee of New York; lecturer in summer sessions of University of Minnesota and University of Pittsburgh. Author: "The Lantern Bearers"; "Studies in Social History"; "Economics and Community Organization of Theatre"; "The City where Crime is Play," a survey and interpretation of child play in New York; "The Indwelling Splendor," and other volumes of verse. At present Consultant to Associate Alumnae of Barnard College in study of self-supporting and democratic recreation.

FREDERICK WARREN COZENS, M.A., Assistant Professor of Physical Education, Southern Branch.

A.B., University of California, 1915; M.A., University of California, 1918; Instructor in Physical Education, University of California, 1916-19; Assistant Professor of Physical Education, Southern Branch, University of California, 1919-.

IRA BROWN CROSS, Ph.D., Professor of Economics on the Flood Foundation.

A.B., University of Wisconsin, 1905; A.M., University of Wisconsin, 1906; Ph.D., Stanford University, 1909; Instructor in Economics, Stanford University, 1909-12; Assistant Professor of Economics, Stanford University, 1912-14; Assistant Professor of Economics, University of California, 1914-17; Associate Professor of Economics, 1917-19; Professor of Economics on the Flood Foundation, University of California, 1919-. Publications: "Coöperative Stores in the United States" (1906); "Essentials of Socialism" (1911); "Labor in California" (1915); "Collective Bargaining in San Francisco" (1917).

MARVIN LLOYD DARSIE, M.A., Assistant Professor of Education, Southern Branch.

B.S., Hiram College, 1908; M.A., Stanford University, 1913; Graduate student, Stanford University, 1911-12; Instructor, Glendale Union High School, Glendale, Cal., 1912-13; Instructor, Lincoln High School, Los Angeles, Cal., 1913-14; Instructor in Education, Los Angeles State Normal School, 1914-19; Assistant Professor of Education, Southern Branch, University of California, 1919-.

WALTER FERNO DEARBORN, Ph.D., M.D., Professor of Education, Harvard University.

A.B. 1900 and A.M. 1902, Wesleyan University, Middletown, Connecticut; Ph.D., Columbia University, 1905; M.D., University of Munich, 1913; student, University of Göttingen, 1904; Instructor and Assistant Professor of Educational Psychology, University of Wisconsin, 1905-09; Associate Professor of Education, University of Chicago, 1909-12; Assistant Professor of Education, 1912-17, and Professor of Education, 1918-, Harvard University; student, University of Heidelberg, 1910; University of Munich, 1911-12 and 1913. Published "Psychology of Reading" (1906).

***CHARLES DERLETH, Jr., C.E.**, Professor of Civil Engineering and Dean of the College of Civil Engineering.

***STURLA EINARSSON, Ph.D.**, Assistant Professor of Practical Astronomy.

†**FRANCIS SEELEY FOOTE, Jr., E.M.**, Professor of Railroad Engineering.

* In Summer School of Surveying, Camp California, Swanton, California.

† Absent on leave for 1920.

JESSIE BODWELL FOOTE, Instructor in Printing, Lincoln High School, Los Angeles Center, Division of Vocational Education.

GEORGE W. GALBRAITH, Supervisor of Classes for Teachers of Trade and Industrial Subjects, Los Angeles Center, Division of Vocational Education.

GRACE GAIL GIBERSON, Director of Music, State Normal School, Eau Claire, Wisconsin.

Student, State Normal School, Mt. Pleasant, Michigan, 1905; graduate, special music course, Thomas Normal Training School, Detroit, 1909; graduate, Supervisor of Music Course, American Institute of Normal Methods, Northwestern University, 1910-13; student, Siegel-Meyers School of Music, Chicago, 1914; grade teacher, Reed City, Michigan, 1906-09; Supervisor of Music, Public Schools, Ypsilanti, Michigan, 1910-12; Instructor in Music, Iowa State Teachers' College, 1912-14; Assistant Director of Music, State Normal School, St. Cloud, Minnesota, 1914-16; Director of Music, State Normal School, Eau Claire, Wisconsin, 1919-; Instructor in Music Methods in American Institute of Normal Methods, Northwestern University, Summer Session of 1919.

THOMAS WARRINGTON GOSLING, Ph.D., Supervisor of Secondary Education, State Department of Public Instruction, Wisconsin.

B.A., Yale University, 1894; M.A., Yale University, 1904; Ph.D., University of Cincinnati, 1911; Instructor, The Hughes High School, Cincinnati, Ohio, 1894; Head of Department of English, The Hughes High School, Cincinnati, 1915; Investigator (for the Board of Education of Cincinnati) of School Systems in Germany and England, 1914; Wisconsin State Department of Public Instruction, 1918-.

MALBONE WATSON GRAHAM, D.D., Instructor in Spanish.

A.B., Princeton University, 1889; D.D., Lenox College, Iowa, 1906; Instructor in Latin and Greek, Lenox College, 1889-91; Director, Colegio Americano Para Varones, Bogota, Colombia, South America, 1895-1904; Assistant in Spanish, University of California, 1917; Instructor in Spanish, University of California, 1917-.

LUCILE HALWICK, A.B., Physical Director, Stockton High School.

A.B., Oberlin College, Ohio, 1910; Physical Director, Stockton High School, 1915-.

FRANCIS B. HEARD, Instructor in Sheet Metal, Lincoln High School, Los Angeles Center, Division of Vocational Education.

HAROLD HESS, Instructor in Auto Machine Shop, Lincoln High School, Los Angeles Center, Division of Vocational Education.

ERNEST BRYANT HOAG, M.A., M.D., Mental Examiner, Los Angeles Juvenile Court; Director of Child Welfare, Pasadena Board of Education.

B.S., Northwestern University, 1892; A.B., Stanford University, 1895; A.M., M.D., Northwestern University, 1902; Professor of Biology, Throop Polytechnic Institute, Pasadena, 1895-98; Director of Hygiene, Throop Polytechnic Institute, 1906-09; Lecturer in Child Hygiene, University of Colorado, 1909-12; State Director of Child Hygiene, Minnesota, 1912-13; Lecturer, University Extension and Summer Session, University of California, 1916-; Publications: "Health Index of Children" (1910); "The Child in Court" (1919); "Health Studies" (1909); "Notes in Criminology" (1917).

HOMER C. HOCKETT, Ph.D., Professor of American History, Ohio State University.

B.L., University of Wisconsin, 1908; Ph.D., University of Wisconsin, 1917; student Earlham College, 1896-98; student University of Indiana, 1898-99; student University of Wisconsin, 1901-05 and 1908-09; Fellow and Instructor, University of Wisconsin, 1904-05; Assistant Professor, Summer Session, University of Illinois, 1905; Professor of History, Central College, Missouri, 1905-08; Instructor in History, University of Wisconsin, 1908-09; Associate Professor, 1909-12; Professor, 1912-, Ohio State University. Author: "Western Influences on Political Parties to 1825"; "A Syllabus of United States History"; "Federalism and the West," in Turner's "Essays in American History"; with R. G. Thwaites, "Early American Travels"; with F. J. Turner, "Correspondence of French Ministers in the United States."

WILLIAM LELAND HOLT, M.D., Deputy Health Officer, Los Angeles County Health Department.

A.B., Harvard, 1901; M.D., Harvard, 1905; studied at German universities, 1906-07; medical practice in California, 1908-10; studied at German universities, 1910-13; Harvard School for Health Officers, Certificate in Public Health, 1914; Instructor in Hygiene and Bacteriology, Western Reserve Medical School, 1917-18; public health work, 1914-. Publications: "The Social Evil" (1909); "Economics and Prevention of Tuberculosis" (1910).

FREDERICK D. HOOD, A.B., Head of the Mechanics Art Department, Polytechnic High School, Los Angeles; Assistant Supervisor Smith-Hughes Teacher Training Center, Southern Branch.

SARA HUNTSMAN, B.S., Assistant Professor of Public Speaking, Utah State College.

B.S., Utah State College, 1899; Diploma of Graduation, Boston School of Oratory, 1901; Instructor of Vocal Expression, Monticello Seminary, Godfrey, Ill., 1901-02; Instructor of English and Vocal Expression, Michigan Seminary, Kalamazoo, Michigan, 1904-07; in charge of Vocal Expression and Public Speaking, and Instructor in English, Utah State College, Logan, Utah, 1907-16; Assistant Professor of Public Speaking, Utah State College, Logan, Utah, 1916-; Acting Assistant Professor of English, Leland Stanford University, 1918.

LEWING WILLARD JONES, Ph.B., Adjunct Professor of Music Education, University of Texas.

Ph.B., University of Wisconsin, 1916; Instructor in Music and Psychology, State Normal School, Plymouth, N. H., 1906-11; Music Supervisor, Milford, N. H., 1909-10; Instructor in Music, and Extension Advisor in Music, University of Wisconsin, 1911-16; Instructor in Music, University of California Summer Session, 1914; Director of Community Music, Chicago, 1916-18; Assistant Professor of Music, University of Wisconsin, 1918-19; Adjunct Professor of Music, University of Texas, 1919-.

ERNEST AUGUST JUST, M.A., Head of Department of Physical Sciences, Long Beach Polytechnic High School.

B.S., Dakota Wesleyan University, 1912; M.A., University of Southern California, 1913; Teacher of Chemistry, Long Beach Polytechnic High School, 1913-17; Head, Department of Physical Sciences, Long Beach Polytechnic High School, 1918-.

ROBERT J. LEONARD, M.A., Professor of Vocational Education.

B.S., Teachers' College, Columbia University, 1912; A.M., Teachers' College, Columbia University, 1914; Lecturer, Vocational Education, University of California Summer Sessions, 1911-12; Director Industrial Education, Public Schools, Berkeley, Cal., 1905-07; Supervisor Industrial Education, Practice Secondary Schools of Teachers' College, Columbia University, 1911-14; Research Agent, Factory Investigation Commission of New York, 1914; Professor of Vocational Education, Indiana University, 1914-17; Regional Agent, East Central Region, Federal Board for Vocational Education, 1917-18; Professor of Vocational Education, University of California, 1918-.

SVEN RICHARD LOKRANTZ, M.D., Acting Supervisor of Corrective Physical Procedure, Los Angeles Schools.

M.D., Tufts College Medical School, Boston, Mass.; Director of the Lokrants School of Swedish Gymnastics, Boston, Mass., 1916-18; Lecturer, Tufts College Medical School, 1918; Lecturer, Cambridge Hospital, 1918; Assistant Orthopedic Surgeon, Los Angeles Medical Department, University of California, 1918.

ELIZABETH MACK, Lecturer in Interpretative and Dramatic Reading.

Teacher, Public High School, Hartford, Conn., 1904-08; residence in Paris, France, 1908-16; studied in University of Paris, France, 1908-11; studied under personal criticism of Mme. Sarah Bernhardt and other French artists, 1911-12; studio teaching in Paris, 1912-14; studio teaching in New York, 1916-19; Lecturer in Columbia University and Brooklyn Institute; Lecturer in Interpretative and Dramatic Reading, University of California, 1920-.

MYRTA LISLE MCCLELLAN, B.S., Instructor in Geography, Southern Branch.

B.S., University of Chicago, 1912; Instructor in Physiography, University High School, Chicago, 1906-11; Instructor in Geography, Illinois State Normal University, 1912-13; Instructor in Geography, Los Angeles State Normal School, 1913-19; Instructor in Geography, Southern Branch, University of California, 1919-.

ARTHUR PATCH MCKINLAY, Ph.D., Assistant Professor of Latin and French, Southern Branch.

A.B., University of Oregon, 1893; A.M., Harvard University, 1904; Ph.D., Harvard University, 1906; Assistant Professor of Classics, University of Idaho, 1906-07; Head of the Department of Latin, Lincoln High School, Portland, Oregon, 1907-12; Instructor in Latin and Greek, University of California, 1912-13; Head of the Department of Languages, Lincoln High School, Portland, 1914-19; Assistant Professor of Latin and French, Southern Branch, University of California, 1919-.

GEORGE RUPERT MACMINN, A.B., Associate Professor of English, California Institute of Technology, Pasadena, Calif.

A.B., Brown University, 1905; Instructor in English, Brown University, 1907-09; Instructor in English, Iowa State College, 1909-10; Instructor in English, University of California, 1910-18.

CYRUS DEWITT MEAD, Ph.D., Associate Professor of Elementary Education.

Ph.B., De Pauw University, 1898; A.M., Columbia University, 1912; Ph.D., Columbia University, 1914; Teacher and Principal of Public, Elementary and High Schools, 1898-1904; Assistant Professor of Elementary Education, College for Teachers, University of Cincinnati, 1912-18; Associate Professor of Elementary Education, University of California, 1918-.

Author of "An Experiment in the Fundamentals" (1917).

COLEMAN LUTHER MICHAEL, Head of the Commercial Department, Phoenix High School, Arizona.

Graduate, State Normal School, West Virginia, 1893; Teacher, Commercial Department, State Normal School, 1893-94; Commercial Teacher, Montgomery Business College, Alabama, 1899-1900; Acting Principal, Commercial Department, West Virginia University, 1900-01; actively engaged in business, 1901-08; Head of Commercial Department, Union High School, Phoenix, Arizona, 1908-. Publications: "How to Teach Writing in the Public Schools" (1898); "Actual Business Writing."

RÉGIS MICHAUD, Licencié ès Lettres, Professor of French.

Licencié-ès-lettres, University of Paris; Assistant Professor of French, Princeton, 1907-14; with the French army, 1914-17; Professor of French, Smith College, 1917-19; Professor of French, University of California, 1919-. Publications: "Mystiques et Réalistes Anglo-Saxons" (1918); "R. W. Emerson, Autobiographie d'après son Journal intime," 2 vols. (1914-18); "Scènes et récits de la grande guerre" (1920).

JOHN GEORGE MILLER, E.M., Head of the Mechanics Art Department, Venice Union Polytechnic High School, Instructor Smith-Hughes Teacher Training Center, Southern Branch.

R. JUSTIN MILLER, J.D., Assistant Executive Officer, Commission of Immigration and Housing of California.

A.B., Stanford University, 1911; LL.B., University of Montana, 1913; J.D., Stanford University, 1914; Teaching Assistant in Law, University of Montana, 1912-13; Instructor in English, Stanford University, 1913-14; District Attorney, Kings County, California, 1915-19; private practice of law, Fresno, 1919; Assistant Executive Office, Commission of Immigration and Housing, 1919-.

WILLIAM CONGER MORGAN, Ph.D., Professor of Chemistry, Reed College, Portland, Oregon.

B.A., Yale College, 1896; Ph.D., Yale University, 1899; Professor of Chemistry, Washburn College, 1899-1901; Instructor in Chemistry, University of California, 1901-06; Assistant Professor of Chemistry, University of California, 1906-12; Professor of Chemistry, Reed College, 1913-.

WILLIAM ALFRED MORRIS, Ph.D., Associate Professor of English History.

A.B., Stanford University, 1901; Ph.D., Harvard University, 1907; Assistant in History, Harvard and Radcliffe College, 1906-07; Instructor in European History, University of Washington, 1907-10; Assistant Professor of European History, University of Washington, 1910-12; Assistant Professor of English History, University of California, 1912-18; Associate Professor of English History, 1918-. Publications: "The Frankpledge System" (1910).

EUGEN NEUHAUS, Assistant Professor of Decorative Design, University of California; Director of Art, Mills College.

Graduate, Royal Art School, Kassel, 1900; graduate, Institute for Applied Art, Berlin, 1908; Instructor in Historic Ornament, Municipal Art School, Charlottenburg, 1903; Assistant Professor of Decorative Design, San Francisco Art School, 1907-09; Instructor in Drawing, University of California, 1908; Assistant Professor of Decorative Design, University of California, 1915-. Publications: "Art of the Exposition" (1915) "Galleries of the Exposition" (1915); "San Diego Garden Fair" (1916); "Painters, Pictures and the Public" (1918).

MARGARET E. NOONAN, Ph.D., Supervisor of Practice School and Instructor in Child Psychology, Harris Teachers College, St. Louis, Mo.

B.S., Columbia University, 1914; Ph.D., Columbia University, 1918; Instructor in Primary Methods, Harris Teachers College, St. Louis, 1912-14; Instructor in Psychology, Harris Teachers College, 1914-16; Instructor, Teachers College, Columbia University, 1917-18. Publications: "Changes in the Abilities of Fifth and Sixth Grade Children over the Vacation Period."

CLAYTON FRANKLIN PALMER, M.A., Supervisor of Agriculture, Los Angeles City Schools.

B.S., Massachusetts Agricultural College, 1897; M.A., Stanford University, 1905; Instructor in Maine schools, 1898; Assistant Agriculturist, Agricultural Experiment Station, Storrs, Connecticut, 1898-99; Instructor in Natural Science, State Normal School, Mansfield, Penn., 1899-1902; student Stanford University, 1902-03; Instructor in Biology and Mathematics, Palo Alto High School, 1903-04; Instructor in Biological Sciences, Palo Alto High School, 1904-07; Instructor in Agriculture and Biology, Los Angeles State Normal School, 1907-10; Head of the Agricultural Department, Gardena High School, 1910-12; Supervisor of Agriculture in Los Angeles City Schools since 1912.

ESTELLA B. PLOUGH, Instructor in Commercial Practice, Southern Branch.

Student, Ferris Institute of Teaching, 1902-04; Supervisor of Drawing and Penmanship, Belding, Michigan, and Cedar Falls, Iowa, 1904-06; student, Los Angeles State Normal School, 1916-17; Instructor in Commercial Practice, Southern Branch, University of California, 1919-.

***WILLIAM C. POMEROY, B.S.**, Instructor in Physics.

LAURIEL RANDALL, Instructor Teacher Training Classes, Trade and Industrial Education, Los Angeles Center, Division of Vocational Education.

THOMAS HARRISON REED, A.B., LL.B., Professor of Municipal Government.

A.B., Harvard University, 1901; LL.B., Harvard, 1905; Assistant in Government, Harvard, 1902-04; Instructor in Political Science, University of California, 1909; Assistant Professor of Political Science, University of California, 1909-11; Executive Secretary to the Governor of California, 1911; Associate Professor of Government, University of California, 1911-18; City Manager of San Jose, Cal., 1916-18; Professor of Municipal Government, University of California, 1919-. Publications: "Form and Functions of American Government" (1916).

ERNEST G. SCHROEDER, Director of Physical Education, State University of Iowa.

Director, Y. M. C. A., and Supervisor of Physical Training of Schools, Marshalltown, Iowa, 1903-04; Director of Athletics and Physical Training, Simpson College, Indianola, Iowa, 1905-06; Director of Physical Education, University of Iowa, 1907-.

* In the Summer School of Surveying, Camp California, Swanton, California.

ALBERT SHIELS, M.A., Pd.M., L.H.D., Director of Community Councils of Greater New York; recently Superintendent of Schools, Los Angeles, California.

A.B., College of the City of New York, 1886; Pd.M., 1896; M.A. 1899; L.H.D., Muhlenberg College; in charge of British Consulate and International Mail Station, City of Colon, 1887-90; Consul for Mexico at Colon and at Panama, 1887-90; Principal, Greater New York, 1899-1905; District Superintendent, Schools of Greater New York, 1906; Director of the Division of Reference and Research of the Department of Education of Greater New York, 1912-16; Superintendent of City Schools in Los Angeles, 1916-19; Director of Community Councils of Greater New York, 1919-; Lecturer at Teachers College, Columbia, College of the City of New York, Dartmouth College, University of California.

HOWARD H. SNYDER, Instructor in Swimming in the Summer Session.

GEORGE E. SPRINGER, Instructor Electrical Engineering, Manual Arts High School, Los Angeles Center, Division of Vocational Education.

FLORENCE EDITH SUTTON, Assistant in Tennis, Southern Branch.

Held tennis championship of the Pacific states, 1907, 1909, 1912; championship of Canada, 1911; Assistant in Tennis, Southern Branch, University of California, 1919-.

***CHARLES C. SWAFFORD, M.S.,** Instructor in Civil Engineering.

ANNE SWAINSON, M.A., Instructor in Textiles.

B.S., University of Missouri, 1910; M.A., Columbia University, 1918; Supervisor, Industrial Art in Elementary Grades, Columbus, Ohio, 1910-12; Instructor, Industrial Art, Summer Session, University of Virginia, 1913; in charge of Applied Design, Illinois State Normal University, 1913-16; Industrial Art for Elementary Grades, Los Angeles State Normal School, 1916-19; Instructor in Textiles, University of California, 1919-.

GAVIN JAMES TELFER, M.D., State District Health Officer, State Board of Health.

M.D., University of California, 1907; A. A. Surgeon, United States Public Health Service, 1908-09; San Francisco Health Department, 1912-18; State District Health Officer, State Board of Health, Los Angeles, 1918-.

EDWIN EARL TOWNER, B.M., Director of Music, Fresno High School and Junior College.

B.M., College of the Pacific, 1910; student, New English Conservatory, 1917; student of piano, organ, harmony, composition, instrumentation and conducting with Wm. J. McCoy, Wallace Sabin, Pierre Douillet, Wilbur McColl, and George W. Chadwick; student of voice with Stephen B. Townsend; teacher and organist in San Jose, 1909-13; teacher in San Jose State Normal School, 1912-13; Fresno High School and Junior College, 1913-. Author of songs, anthems, choruses, school music, text books, and orchestral compositions performed by the Boston and the Minneapolis Symphony Orchestras.

* In the Summer School of Surveying, Camp California, Swanton, California.

HERBERT FREDERICK TRUE, M.D., Director of Health and Development Department, Los Angeles City Schools; Assistant Health Commissioner, Los Angeles.

M.D., Los Angeles Department, College of Medicine, University of California, 1903; Assistant Surgeon, U. S. Public Health and Marine Hospital Service, 1903-04; Post-graduate work at McGill Ophthalmic Hospital, London National Nervous Hospital, Imperial and Royal University of Vienna, and Allgemeines Krankenhaus, 1905-06; Medical Examiner, Los Angeles City Schools, 1907-19; Director, 1917-.

CHARLES WILKIN WADDLE, Ph.D., Associate Professor of Education and Supervisor of Training, Southern Branch.

A.B., Colorado College, 1901; A.M., Colorado College, 1903; Ph.D., Clark University, 1905; Training Teacher and Assistant Superintendent of Training School, Colorado Teachers College, 1909-10; Head of Department of Psychology and Education, Los Angeles State Normal School, 1910-17; Supervisor of Training, Los Angeles State Normal School, 1917-19; Associate Professor of Education and Supervisor of Training, Southern Branch, 1919-. Author of "An Introduction to Child Psychology" (1918).

RUTH A. WARDALL, M.A., Professor of Home Economics and Head of the Department of Home Economics, State University of Iowa.

A.B., University of Illinois, 1903; A.M., University of Illinois, 1907; Head of Home Economics Department, State College, Brookings, South Dakota, 1903-06; Head of Home Economics Department, Ohio State University, 1907-13; Head of Home Economics Department, State University of Iowa, 1913-. Publications: "A Study of Foods" (1914).

HELEN S. WATSON, B.S., Assistant Superintendent of Schools, Los Angeles.

FRED C. WEBER, M.A., Head of Department of Commerce, Los Angeles Polytechnic High School.

B.S., Northern Illinois Normal School, 1895; M.A., Northern Illinois Normal School, 1897; Head of Commercial Department of Vincennes University, Indiana, 1895-98; Instructor in Bookkeeping, Commercial Law, and Mathematics, Marion Normal School, Indiana, 1898-99; Supervisor of Penmanship and Instructor in Bookkeeping, City Schools, La Porte, Indiana, 1899-1900; Head of Department of Commerce, Los Angeles Polytechnic High School, 1904-. Publications: "Weber's Bookkeeping and Accountancy."

TALCOTT WILLIAMSON, M.L., Head of the English Department, Technical High School, Oakland, Calif.

B.L., University of California, 1908; M.L., University of California, 1911.

ALBERT BENEDICT WOLFE, Ph.D., Professor of Economics and Sociology, University of Texas.

A.B., Harvard, 1902; Ph.D., Harvard, 1905; Associate Professor of Economics and Sociology, Oberlin College, 1905-07; Professor of Economics and Sociology, Oberlin College, 1907-14; Professor of Economics and Sociology, University of Texas, 1914-; taught in Summer Sessions at Harvard University, (1910, 1911), University of Chicago (1915), University of Colorado (1919). Publications: "The Lodging House Problem in Boston" (1906); "Readings in Social Problems" (1916).

BALDWIN MUNGER WOODS, Ph.D., Professor of Aerodynamics and University Examiner.

E.E., University of Texas, 1908; **M.S.,** University of California, 1909; **Ph.D.,** University of California, 1912; Assistant and Instructor in Mathematics, University of California, 1909-15; Assistant Professor of Theoretical Mechanics, 1915-19; President of the Academic Board, School of Military Aeronautics, 1917-19; Professor of Aerodynamics, University of California, 1919-; University Examiner, University of California, 1916-.

HARRY NOBLE WRIGHT, Ph.D., President and Professor of Mathematics, Whittier College.

B.S., Earlham College, 1904; **M.S.,** University of California, 1911; **Ph.D.,** University of California, 1918; Professor of Mathematics, Pacific College, 1904-05; Professor of Mathematics, Whittier College, 1908-10; Instructor in Mathematics, University of California, 1913-17; Dean and Professor of Mathematics, Whittier College, 1917-18; President and Professor of Mathematics, Whittier College, 1918-. Publications: "Some Properties of Polynomial Curves" (1917).

CHARLES J. YAGER, Instructor in Machine Shop, Lincoln High School. Los Angeles Center, Division of Vocational Education.



ANOTHER VIEW OF MILLSPAUGH HALL

COURSES OF INSTRUCTION

The University reserves the right to withdraw any course in which the initial enrollment may be deemed to be insufficient. As a rule, an enrollment of less than four will be regarded as insufficient.

The University also reserves the right at any time to restrict attendance and enrollment in any course, if for any reason such restriction becomes necessary.

AGRICULTURE

CLAYTON FRANKLIN PALMER, M.A., Supervisor of Agriculture, Los Angeles City Schools.

4. School and Home Gardening.

(PALMER)

Discussion of purposes, values, relation to other school work, helps and hints for teachers, laying out the garden, method of conducting the work, phases suitable for different grades, relation of school garden to home garden, etc. Laboratory work will include simple experiments with plants and soils, studies of parts of plants with their functions, insects, diseases, making and setting cuttings, seed sowing in beds and boxes, transplanting, potting, etc. Field work in soil preparation, planting, irrigation, cultivation, spraying, transplanting, studies of crops, insects, etc. Trips to nurseries, private estates, school gardens, home gardens, parks, markets, etc. The course is to be conducted at the Agricultural Center, Hooper Avenue and Thirty-fourth Street, every afternoon. This plant comprises two acres of ground planted to a large variety of vegetables, fruits and ornamentals, and is further equipped for the work with large lath-house, glass-house, sheds, hot-beds, nurseries, etc. Laboratory fee, \$2.00. 2 units.

Lectures, M Tu W Th F, 2; laboratory and field, daily, 3-5.

CHEMISTRY

WILLIAM CONGER MORGAN, Ph.D., Professor of Chemistry, Reed College.

ERNEST AUGUST JUST, M.A., Head of the Department of Physical Sciences,
Long Beach Polytechnic High School.

The chemical laboratory will be open daily, except Saturday, from 8 a.m. to 12 m., and from 1 to 4:30 p.m. A fee of \$12.50, none of which will be returned, must be paid to the Comptroller before a student will be admitted to a course in chemistry which requires work in the laboratory.

A. Elementary Chemistry.

(MORGAN, JUST)

An introduction to general chemistry. Credit for matriculation chemistry 3b will be given for the satisfactory completion of this course. Lectures and experimental illustrations, or recitations, and fifteen hours of laboratory work per week.

Lectures, M Tu W Th F, 11; laboratory, M Tu W Th F, 1-4.

S161. Course for Teachers.

(MORGAN)

This course is designed for actual or prospective teachers. It presupposes a knowledge of the facts and fundamental principles of the science, considering them from an advanced standpoint for the purpose of giving perspective and breadth of view. Some of the more recent developments in chemistry will be discussed and their significance pointed out. 1 unit.

M W F, 10.

CIVIL ENGINEERING**SUMMER SCHOOL OF SURVEYING****CAMP CALIFORNIA, SWANTON, CALIFORNIA**

CHARLES DERLETH, Jr., C.E., Professor of Civil Engineering and Dean of the College of Civil Engineering.

***FRANCIS SEELEY FOOTE, Jr., E.M.**, Professor of Railroad Engineering.

ARTHUR CARL ALVAREZ, B.S., Associate Professor of Civil Engineering and Director of the Summer School of Surveying.

CHARLES C. SWAFFORD, M.S., Instructor in Civil Engineering.

STURLA EINARSSON, Ph.D., Assistant Professor of Practical Astronomy.

WILLIAM C. POMEROY, B.S., Instructor in Physics.

Additional instructors, a medical officer, who will also act as commissary agent, and the necessary cooks, janitors and helpers will be appointed before May 1, 1920.

The Summer School of Surveying is held at a camp established at the junction of Scott and Little Creeks, Santa Cruz County, within one and one-half miles of the ocean coast; sixteen miles northwest of Santa Cruz on the Ocean Shore Railroad. The session begins Thursday, May 13, and is four weeks in length.

UNIVERSITY FEE

All students attending camp pay a University fee of twenty dollars.

COMMISSARY DEPOSIT

A deposit of thirty-five dollars is required from each student, to cover expenses incurred for board at camp, fines for injury to instruments or camp equipment, etc. Any surplus not required to cover the above items is returned to the student.

The University fee and commissary deposit must be paid in advance to the Comptroller of the University at Berkeley. Receipts for these payments must be shown to the Camp Director after reaching camp.

* Absent on leave for 1920.

Civil Engineering 3.

(FOOTE, SWAFFORD, EINARSSON, POMEROY, and Assistants.)

This course consists of field practice in plane surveying, comprising such subjects as:

Determination of length of base lines.

Measurement of horizontal angles by repetition.

Triangulation.

Azimuth traverse.

Differential and profile leveling.

Topographic survey, by plane table and stadia.

Determination of latitude and azimuth with engineers' transit, by solar and Polaris observations.

Military sketching.

Four weeks' continuous field work. Required of freshmen in the Colleges of Civil Engineering and Mining. Prerequisite: course Civil Engineering 1A, 1B. 3 units. Students with grade 4 or incomplete in course Civil Engineering 1B will not be admitted to course Civil Engineering 3.

Civil Engineering 103.

(ALVAREZ, POMEROY, and Assistants)

This course comprises field and office work necessary for the location of a short railroad line including:

Reconnaissance.

Preliminary surveys.

Final location.

Cross-sectioning.

Drainage area and right-of-way surveys.

Maps and profiles.

Estimates of quantities and costs.

Prescribed at the end of the junior year for all students in the College of Civil Engineering. Prerequisite: courses 3 and 102. Four weeks' continuous field practice. 3 units.

Students interested in surveying field practice are advised to secure the Special Bulletin of Information of the Summer School of Surveying.

Communications regarding the work of the Summer School of Surveying should be addressed to the Dean of the College of Civil Engineering, University of California, Berkeley, California.

COMMERCIAL PRACTICE

EVA M. ALLEN, Instructor in Commercial Practice, Southern Branch.

ESTELLA B. PLOUGH, Instructor in Commercial Practice, Southern Branch.

FRED C. WEBER, M.A., Head of the Department of Commerce, Polytechnic High School, Los Angeles.

COLEMAN LUTHER MICHAEL, Head of the Commercial Department, High School, Phoenix, Arizona.

The courses lettered A-F may be used for matriculation credit; university credit toward a degree for courses A-D will be granted to candidates for the bachelor's degree in the College of Commerce and to prospective teachers of commercial work in the high school.

A. Elementary Stenography.**(ALLEN)**

Fundamental principles of Gregg shorthand. The first half of the manual; penmanship drills and supplementary work. Students should be able to take simple graded dictation at the rate of seventy-five words a minute at the conclusion of the course. 2 hours daily, 4 hours preparation. 4 units.

M Tu W Th F, 1 and 3.

B. Intermediate Stenography.**(ALLEN)**

Review of the theory covered in course A; last half of the manual. Beginning speed dictation; special vocabularies; letters and business forms. Prerequisite: course A or its equivalent. 2 hours daily, 4 hours preparation. 4 units.

M Tu W Th F, 2 and 4.

C. Elementary Typing.**(MICHAEL)**

A rapid development of a thorough command of the keyboard through finger gymnastics, exercises for mental control, and intensive drills in fingering and rhythm. Correct position, the various mechanical devices, and care of the machine. 1 hour class drill and 1 hour practice daily. Laboratory fee, \$1.50. 1 unit.

M Tu W Th F, 8; practice hour to be arranged.

D. Intermediate Typing.

(MICHAEL)

Intensive development of skill based on principles developed by typewriter speed experts and adapted to school conditions. Detailed study and application in class and individual work: correct position and technique; rhythm; independent finger control, hand gymnastics and proper use of the phonograph in school work. The laws of applied art governing the artistic arrangement of typewritten material, with special reference to simple commercial forms. Designed to furnish typists and those intending to teach with first-hand knowledge of skill. Prerequisite: mastery of the keyboard by touch method. 1 hour class work and 1 hour supervised practice daily. Laboratory fee, \$1.50. 1 unit.

M Tu W Th F, 10; practice hour to be arranged.

E. Elementary Bookkeeping.

(WEBER)

A study of values and their classification; accounts and account analysis; financial, economic, trading and operating transactions; double entry, journalizing, posting and trial balances; ledger closings; balance sheets, trading profit and loss statements; locating and correcting errors; cash, purchase and sales books; business papers (form and use); bank accounts and bank service; discounts; indorsements; contingent liabilities; methods of computing percentages of profits, losses and costs of doing business; eastern and western practices in bank discount; special columns, controlling accounts, customers' and creditors' ledgers; formation and dissolution of partnerships; auxiliary books, etc. Attention will be given to methods of presenting this work to high school students. 2 units.

M Tu W Th F, 9; laboratory hour to be arranged.

F. Advanced Bookkeeping.

(WEBER)

A brief review of elementary bookkeeping touching upon the theory of accounts, financial statements, special columns, controlling accounts, auxiliary and principal books, etc.

A study of opening entries; adjustments of interest on partnership investments; dissolution and closing entries; branch and agency accounts; imprest cash funds; depreciation and allowances for depreciation; bad debts and allowances for bad debts; accrued assets and liabilities; deferred charges and credits; real estate accounts; construction and analysis of balance sheets, trading and profit and loss statements; graphic presentation of accounting facts; corporation accounting; manufacturing accounting, statements and analysis of costs, etc. Attention will be given to methods of presentation to high school students. 2 units.

M Tu W Th F, 11; laboratory hour to be arranged.

G. Penmanship.**(PLOWH)**

Zaner method, which is used throughout the State of California.

Emphasis upon blackboard work and method of teaching. Designed for those who wish to teach penmanship. Students may apply for their "Zaner Certificates" upon completing this course. First week, position and movement; second week, application of movement and position to formation of letters, words and figures; third week, capital and small letters; fourth week, application of movement and form to sentence writing; fifth week, alphabetical word and sentence work; sixth week, page work, commercial forms, and instruction in "scaling" writing. No credit.

M Tu W Th F, 8.

CRIMINOLOGY

ERNEST BRYANT HOAG, M.A., M.D., Mental Examiner of the Juvenile Court, Los Angeles, and Director of Child Welfare, Pasadena.

113A. Mental Hygiene.**(HOAG)**

The following topics will be discussed: early influences in relation to mental hygiene; temperament and individual differences; abnormal tendencies and their control; character and environment; nervous disorders of the child and adult, their recognition and control; feeble-mindedness and other mental deviations; criminal and delinquent tendencies; normal habit formation and reëducation of abnormal habits. The course is intended to be of practical value to teachers, social workers, and medical students. 2 units.

M Tu W Th F, 1.**113r. Juvenile Delinquency.****(HOAG)**

The problems of misconduct in children and youths, its prevention, control, and treatment. Such topics as the following will be included: early mental influences in relation to habit formation; special study of the influences of heredity and environment; the elements entering into character formation; a study of the prevention of delinquency, especially in relation to the public schools; the history and development of juvenile courts and institutions for reform; laboratory methods as applied to the study of intelligence and responsibility; delinquency in relation to school problems; types of delinquents such as the feeble-minded, epileptic, psychopathic, etc.; special delinquencies, such as those involved in mental complexes, pathological lying, etc. A study of case histories taken from the Los Angeles Juvenile Court. Opportunity will be give for a first-hand study in the Los Angeles court, the Detention Home, private institutions, and the Whittier State Industrial School. 2 units.

M Tu W Th F, 2.

ECONOMICS

IRA BROWN CROSS, Ph.D., Professor of Economics on the Flood Foundation.

ALBERT BENEDICT WOLFE, Ph.D., Professor of Economics and Sociology, University of Texas.

JOHN COLLIER, Director of Americanization and Community Institutes, Extension Division; Director of Immigrant Education, State Commission of Immigration and Housing.

R. JUSTIN MILLER, J.D., Assistant Executive Officer, State Commission of Immigration and Housing.

81. Elements of Economics.**(CROSS)**

An introductory study of the principles of economics, touching such fundamental theories as those of value, rent, wages, profits, and interest, but emphasizing more particularly the consideration of current economic problems. 2 units.

M Tu W Th F, 9.

3. Introduction to General Sociology.**(WOLFE)**

A brief introduction to the general field of sociological theory. The physical basis of society; the land and the people; influence of physical environment on social relations; social organization and social control; certain biological and economic factors in social organization and social evolution; society as a psycho-physical process; communication and socialization; the democratic mind and social classes; institutions and social control; standards of social progress. 2 units.

M Tu W Th F, 1.

152. Contemporary Social Problems.**(CROSS)**

Problems and issues arising from the development of modern industry. The following are typical of the subjects to be discussed: the industrial revolution and its results, working class psychology, labor legislation, trade unionism, radical movements, employment management. 2 units.

M Tu W Th F, 10.

159. Industrial Reconstruction.

(WOLFE)

An analysis of the present industrial unrest, industrial dislocation, and the shock to economic processes and ideals occasioned by the war, with special reference to the programmes and proposals for the reconstruction of industrial relations. Industrial psychology; collective bargaining; employee representation (coöperative management); industrial councils; scientific management of old and new types; industrial peace and efficiency; concepts and programmes of industrial democracy. 2 units.

M Tu W Th F, 11.

AMERICANIZATION**52. The Problem of Immigration, with Especial Reference to Americanization and Race Assimilation.**

(COLLIER, MILLER)

The history of immigration to the United States; statistics of immigration; legislation affecting immigration; immigrant heritage—social and political backgrounds; the immigrant in agriculture, industry, practical politics, and in relation to the courts; the distribution of immigration; Americanization of immigrants; California state effort in dealing with immigrants; Asiatic immigration, and the adult immigrant as an embodiment of certain educational problems. 2 units.

M Tu W Th F, 3.

89. Community Organization and Community Service. (COLLIER, MILLER)

The history of the community movement, from Robert Owen to our own day; discussion of the conditions which necessitate community organization; community organization for recreation, education, civic action, and the improvement of living conditions; analysis of types of community organization: coöperation in Belgium, Russia, Denmark, Ireland, the American coöperative movement; the grange and farm bureau; the school community center; the community council; the social unit; the reorganization of governmental services making possible an enlarged citizen participation in government; educational and social developments of the labor movement; the Workers' Educational Association and other movements for self-education of the masses; the methods by which the church, the school, the departments of health, housing, corrections, etc., can render mutual aid and provide civic leadership for the people. 2 units.

M Tu W Th F, 2.

While courses 52 and 89 are separate, they are designed together to cover, so far as is possible in six weeks, the subjects of the immigrant and others in the community, and the interrelationship of social agencies in a democratic community.

Students will be given the secondary certificate entitling them to teach Americanization in the schools of California, both secondary and primary, provided they pass successfully the two courses given by Mr. Collier and Mr. Miller, and provided they also complete one of the following courses: Economics 3, 152, 159; Education 115, 178, 260.

Miss Richardson, Assistant Superintendent of Public Instruction in charge of Americanization, will hold office hours at the Summer Session in Los Angeles from 4 to 5 p.m. daily, July 12 to 16, inclusive; those who desire to make appointments for conference are asked to register at the office of the Dean of the Summer Session. It is to be noted that the new compulsory law requires the attendance in citizenship classes of aliens who do not speak English and illiterates between the ages of 18 and 21.

SCHOOL OF EDUCATION

EDUCATION

WALTER FENNO DEARBORN, Ph.D., M.D., Professor of Education, Harvard University.

ROBERT J. LEONARD, M.A., Professor of Vocational Education.

ALBERT SHIELS, M.A., L.H.D., recently Superintendent of Schools, Los Angeles, California; Director of Community Councils of Greater New York.

THOMAS WARRINGTON GOSLING, Ph.D., Supervisor of Secondary Education, State Department of Public Instruction, Wisconsin.

CYRUS DE WITT MEAD, Ph.D., Associate Professor of Elementary Education.

CHARLES WILKIN WADDLE, Ph.D., Associate Professor of Education and Supervisor of Training, Southern Branch.

MARVIN LLOYD DARSIE, M.A., Assistant Professor of Education, Southern Branch.

MARGARET E. NOONAN, Ph.D., Supervisor of Practice School and Instructor in Child Psychology, Harris Teachers' College, St. Louis.

HISTORY AND PRINCIPLES OF EDUCATION

104. Origin and Evolution of Present Educational Conceptions. (SHIELS)

The principles of education were evolved historically, sometimes as reactions against current conceptions, sometimes as conscious interpretations of various schools of philosophy and psychology. Not a few are associated with the names of individuals who originated or expanded them.

Although a study of the development of educational conceptions will form the purpose of the course, the chronological mode of treatment will be observed. To that degree this will constitute a course in the history of education. 2 units.

M Tu W Th F, 9.

115. The School as a Social Institution.**(DARSIE)**

Practice rather than theory will be discussed. An intensive study will be made, at first hand where possible, of schools which have developed unusually effective methods of social service. Particular attention will be paid to successful achievement in the fields of moral and civic training, educational and vocational guidance, immigrant education, and community service. On the basis of such concrete studies, an attempt will be made to devise a scale for the measurement of schools in terms of their social efficiency. 2 units.

M Tu W Th F, 8.

ADMINISTRATION**S146. Organization and Administration of Junior High Schools.****(GOSLING)**

A discussion of the following topics will be included in the course: types of building and equipment; qualifications of the principal and the teachers; schedule of salaries; improvement of teachers in service; standards for admission of pupils; classification of pupils; use of tests and measurements; length of the school day; length of the recitation period; types of curricula; election and prescription of studies; provision for boys and girls according to sex differences; development of pupil initiative; social activities of pupils; the problem-project method of teaching; directed study; training for citizenship; physical education; supervision of instruction; educational guidance; articulation with the senior high school. 2 units.

M Tu W Th F, 10.

149. The Administration of City Schools.**(SHIELDS)**

Principles and practices related to administration and organization as determined: (a) by the public; (b) by the professional teacher; (c) by the non-professional force as a partial factor; (d) by co-operating agencies, parents' associations and community organization. Public and semi-public agencies.

The work will be divided as follows: (1) the study of accepted methods and procedures as indicated by standard texts; (2) the discussion of pros and cons concerning current theoretical principles not now in general practice. To each student will be assigned one topic for special consideration during the course. 2 units.

M Tu W Th F, 8.

RECONSTRUCTION

178. **The Teaching of Citizenship.**

(GOSLING)

The materials and the methods suitable for instruction in citizenship.

The following topics will be considered: the objectives in all civic instruction; the foundations of good citizenship in the home, in the kindergarten, and in the elementary grades; the special relationship of the junior high school and of the senior high school to training in citizenship; the contribution of the several social studies to a programme of citizenship instruction. The course will aim to develop a practical programme founded upon correct theory and suited to all grades of the public schools. 2 units.

M Tu W Th F, 9.

EDUCATIONAL PSYCHOLOGY

112. **Child Psychology.**

(WADDLE)

An introductory course dealing primarily with the history and methods of child psychology; biological perspective; heredity; instincts; psychology of play, language, drawing; the moral nature, etc. With the foregoing as a background, a genetic account of the development of attention, association, memory, imagination, emotion and thinking will be worked out. The best established facts and principles of general mental development worked out in the course will be applied to practical problems of the learning process. 2 units.

M Tu W Th F, 1.

113. **Child Hygiene.**

(WADDLE)

The hygiene of growth and development; the causes and prevention of the common diseases and defects of childhood; the hygiene of school environment and equipment; hygienic phases of instruction; preventive mental hygiene. 2 units.

M Tu W Th F, 3.

116. **The Principles of Educational Psychology and Mental Hygiene.**

(DEARBORN)

A restatement and analysis of the problems of learning and of current educational doctrines in terms of an objective or "behavioristic" psychology. The problems of mental health which result from the learning and experiences of the individual will be emphasized. Practical problems in the teaching and learning of the common school subjects will be discussed in the latter part of the course. 2 units.

M Tu W Th F, 9.

117. Individual Psychology.

(DEARBORN)

The nature and extent of individual differences in children. The measurement of the intelligence of children with applications to the problems of school grading and to the methods of instruction of normal, exceptionally gifted, and mentally deficient children. Practical exercises in the methods of individual testing will be arranged for as opportunity may permit. 2 units.

M Tu W Th F, 10.

ELEMENTARY EDUCATION**S123. The Principles of Elementary Education.**

(MEAD)

With special reference to geography, arithmetic, history, spelling, composition and reading. Modern points of view from opinion and experiment; selection of material and methods of presentation; standards for judging a recitation, etc. Readings, with class discussions. For superintendents, supervisors, principals and experienced teachers. Late entrance not permitted. 2 units.

M Tu W Th F, 11.

128. General Primary Methods.

(NOONAN)

The theories and principles underlying methods of teaching and selection of subject matter in the primary grades. The greater part of the time will be devoted to a discussion of reading, language, and arithmetic. 2 units.

M Tu W Th, F, 2.

129. Methods in the Fundamental Subjects.

(NOONAN)

Present day practices and tendencies in the elementary schools. The changes in educational theories that are tending to modify school-room practice. 2 units.

M Tu W Th F, 3.

S207. Measurements of Elementary School Work.

(MEAD)

For teachers, supervisors, principals and superintendents with graduate or upper division standing. The course will cover the elements and technique of present day testing of class products, materials, and methods by the use of standard tests, with the application of the same to the improvement of instruction. Late entrance not permitted. Admission only on consultation with the instructor. 2 units.

M Tu W Th F, 10.

SECONDARY EDUCATION

- 104. Origin and Evolution of Present Educational Conceptions.** (SHIELDS)
(See History and Principles of Education for description of course.)
M Tu W Th F, 9.
- 115. The School as a Social Institution.** (DARSIE)
(See History and Principles of Education for description of course.)
M Tu W Th F, 8.
- S146. Organization and Administration of Junior High Schools.** (GOSLING)
A discussion of the following topics: types of building and equipment; qualifications of the principal and the teachers; schedule of salaries; improvement of teachers in service; standards for admission of pupils; classification of pupils; use of tests and measurements; length of the school day; length of the recitation period; types of curricula; election and prescription of studies; provision for boys and girls according to sex differences; development of pupil initiative; social activities of pupils; the problem-project method of teaching; directed study; training for citizenship; physical education; supervision of instruction; educational guidance; articulation with the senior high school. 2 units.
M Tu W Th F, 10.
- 149. The Administration of City Schools.** (SHIELDS)
(See Administration for description of course.)
M Tu W Th F, 8.
- 178. The Teaching of Citizenship.** (GOSLING)
(See Reconstruction for description of course.)
M Tu W Th F, 9.
- 260. Vocational Education.** (LEONARD)
(See Vocational Education for description of course.)
M Tu W Th F, 9.
- 261. Part-time Education.** (LEONARD)
(See Vocational Education for description of course.)
M Tu W Th F, 11.

VOCATIONAL EDUCATION**260. Vocational Education.****(LEONARD)**

A general course in vocational education for superintendents, principals and vocational teachers; lectures, assigned readings, and discussions. The history, meaning and organization of vocational education; state and federal legislation, including the Smith-Hughes Act; development of state systems and principles underlying education for industry, commerce, agriculture, women's occupations and home economics. Admission only on consultation with instructor. 2 units.

M Tu W Th F, 9.**261. Part-Time Education.****(LEONARD)**

A course dealing with the underlying principles of part-time education, with special reference to the new California compulsory part-time education act, which becomes effective July, 1920. Among the problems which will be considered are part-time legislation, courses in part-time schools for industry, commerce, agriculture and home economics, the function of vocational guidance and placement. Admission only on consultation with instructor. 2 units.

M Tu W Th F, 11.

**COURSES IN OTHER DEPARTMENTS OF SPECIAL INTEREST
TO TEACHERS**

AGRICULTURE**School and Home Gardening.****(PALMER)****CHEMISTRY****Course for Teachers.****(MORGAN)****COMMERCIAL PRACTICE****Elementary Bookkeeping.****(WEBER)****Advanced Bookkeeping.****(WEBER)****Penmanship.****(PLOUGH)****CRIMINOLOGY****Mental Hygiene.****(HOAG)****Juvenile Delinquency.****(HOAG)**

ECONOMICS

- Contemporary Social Problems. (CROSS)
Industrial Reconstruction. (WOLFE)
The Problem of Immigration, with Especial Reference to Americanization
and Race Assimilation. (COLLIER, MILLER)
Community Organization and Community Service. (COLLIER, MILLER)

ENGLISH

- Narration. (MACMINN)
Shakespeare and Recent Leading Dramatists. (AKSON)
The High School and Junior College Course in English. (BRUCE)

FRENCH

- Composition and Conversation. (BRIOS)
Advanced French. (MICHAUD)

GEOGRAPHY

- World Geography. (McCLELLAN)

GRAPHIC ART

- Seminar in Graphic Art. (NEUHAUS)

HISTORY

- English Constitutional History Since 1660. (MORRIS)
The Last Half-Century in the United States. (HOCKETT)

HOME ECONOMICS**(HOUSEHOLD ART)**

- Teacher's Course: Industrial Art for Elementary Grades. (SWAINSON)

(HOUSEHOLD SCIENCE)

- Household Management. (WARDALL)
Seminar. (WARDALL)

LATIN

- Problems of Teaching Latin. (McKINLAY)
Cicero. (McKINLAY)

MATHEMATICS

- Introduction to Projective Geometry. (WRIGHT)
Elementary Algebra for Advanced Students. (WOODS)

MUSIC

Choral Practice.	(JONES)
Orchestral Practice.	(TOWNER)
Elementary Music Education.	(GIBERSON)
Advanced Music Education.	(JONES)

PHYSICAL EDUCATION

Folk Dancing for Schools and Playgrounds.	(HALWICK)
Advanced Folk Dancing.	(HALWICK)
Elementary Dancing.	(HALWICK)
Playground Activities (School and Municipal): Elementary.	(COZENS)
The Coaching of Elementary School Sports.	(COZENS)
Therapeutic Gymnastics.	(LOEBANTZ)
History, Theory and Administration of Physical Education.	(SCHROEDER)
The Organization of Physical Training Activities for Schools and Playgrounds.	(COZENS)
The Theory and Practice of Teaching.	(SCHROEDER)

POLITICAL SCIENCE

Problems of Popular Government in the United States.	(REED)
Post-War Democracy.	(REED)

PUBLIC HEALTH

Child Welfare.	(TRUE)
School Hygiene.	(TRUE)

PUBLIC SPEAKING

The Training of the Speaking Voice.	(HUNTSMAN)
Fundamentals of Acting.	(MACK)
Vocal Interpretation.	(HUNTSMAN)
The Staging and Presentation of Plays.	(MACK)

SPANISH

Conversation and Composition.	(CABELLO)
Course for Teachers.	(BOURLAND)

DIVISION OF VOCATIONAL EDUCATION

**Trade Analysis and the Organization of Subject Matter for Trade Work
for Men.** (MILLER)

**Trade Analysis and the Organization of Subject Matter for Trade Work
for Women.** (RANDALL)

Theory and Administration of Industrial Education. (MILLER)

Content of Supplemental Trade Subjects. (HOOD)

Teaching in Part-Time Schools. (WATSON)

Content and Method of Instruction for Supplemental Subject Teachers.
(HOOD)

Industrial Practice for Supplemental Subjects Teachers.
(SPRINGER, HEARD, HESS, YAGER, CASEY, FOOTE)

ENGLISH

STOCKTON AXSON, Litt.D., L.H.D., Professor of English, Rice Institute.

HAROLD LAWTON BRUCE, Ph.D., Associate Professor of English Composition.

GEORGE RUPERT MACMINN, A.B., Associate Professor of English, California Institute of Technology, Pasadena.

ARTHUR GILCHRIST BRODEUR, Ph.D., Assistant Professor of English Philology.

TALCOTT WILLIAMSON, M.L., Head of the Department of English, Technical High School, Oakland.

Slc. Business English.**(WILLIAMSON)**

A course in the writing of effective English as applied especially to commercial correspondence. The composition of different kinds of letters. Methods of attracting attention, holding interest, following up prospects, and closing transactions. Courtesy, tact, and force in letter-writing. 2 units.

M Tu W Th F, 9.

S101A. Narration.**(MACMINN)**

Practice in descriptive and narrative writing, with study of masterpieces; lectures on the technique of description and narration; appointments for individual criticism. The enrollment will be limited. 2 units.

M Tu W Th F, 2.

S110c. The Poetry of Chaucer.**(BRODEUR)**

A systematic study of the Canterbury Tales, with special reference to their historical background and sources. Translation, collateral reading, and reports on linguistic or literary problems. 2 units.

M Tu W Th F, 2.

S123. The Contemporary Essay.**(WILLIAMSON)**

The reading and discussion of essays by such men as A. C. Benson, Chesterton, Wells, Shaw, Crothers, Mencken, Lippmann, and Waldo Frank, with a view to understanding some of the currents in contemporary thought of which they are the significant expression. 2 units.

M Tu W Th F, 8.

8125. Masters of the Short Story.

(MACMINN)

Lectures on the work in the field of the short story of Poe, Hawthorne, Harte, Stevenson, Kipling, Hardy, Henry James, and O. Henry, with supplementary lectures on Maupassant, Tchekhov, and other European masters, and also on the chief contemporary writers in this form of prose fiction. 2 units.

M Tu W Th F, 1.

139. Shakespeare and Recent Leading Dramatists.

(AXSON)

A lecture course on Shakespeare and various aspects of modern drama. The first half of the course will be devoted to an interpretation of Shakespeare's thought and dramatic art, and the second half will set forth the new ideas of dramatic purpose and form introduced by Ibsen and developed by various authors in America and England and on the European continent. Although the course is not historical in purpose, there will be lectures on the transition from the Elizabethan conception of drama to the Ibsenesque or modern conception. While there will be no attempt to deal with dramatic technique authoritatively, the actual conditions of stage presentation will be kept continually in mind, and the authors will be considered as practical playwrights, not as closet poets and philosophers. The main object of the course will be to show how life, individual and collective, looked to men who presented their view of the human tragedy and comedy through the most exacting and at the same time most lifelike of artistic media, the practical stage. Essays and final examination based on prescribed plays will be required of all who wish to obtain credit for the course. There will be frequent opportunities for individual conference with the lecturer. 2 units.

M Tu W Th F, 11.

140. British and American Writers of the Nineteenth Century. (AXSON)

A general lecture course, interpretative and appreciative, designed primarily to stimulate and increase taste for literary thought and form. Stress will be laid on the "point of view" or underlying philosophy of each author considered, and on the character and quality of the literary art which he employed to express his ideas. A secondary object of the course is, by rapid running commentary on a considerable number of nineteenth century English-speaking authors, to present a panoramic view of nineteenth century thought in the English-speaking world, and to suggest comparisons between the thought and problems of the nineteenth century and those of

the twentieth century as we begin to apprehend them after a world war. Readings from the works of the authors will be arranged in groups, and each student wishing credit for the course will be required to select a group and to report by examination and written theses on the works catalogued under the group. The lecturer will be glad to assist the individual student to make his selections and will hold frequent office hours for conference with individuals on all matters pertaining to the course. The authors comprised in the course are: Burns, Wordsworth, Coleridge, Byron, Shelley, Keats, Tennyson, Browning, Dickens, Thackeray, George Eliot, Hawthorne, Poe, Carlyle, Emerson, Arnold, Whitman, Stevenson, and Kipling. 2 units.

M Tu W Th F, 10.

149. California in Literature.

(BRUCE)

The reflection in literature of the various periods of California history; reading and discussion of works of Dana, Bret Harte, Stevenson, Kipling, Clemens, Frank Norris, and others, including contemporary writers. 2 units.

M Tu W Th F, 9.

S155. The High School and Junior College Course in English. (BRUCE)

A discussion of the teaching of English literature and composition, with emphasis on practical problems. 2 units.

M Tu W Th F, 10.

S242. Seminar in the Comparative Study of Literature: French Influences in English Literature from the Norman Conquest to Chaucer.

(BRODEUR)

This course is designed to illustrate the effect of French influence upon the form and substance of Middle English literature. The following types will be studied: the epic and the romance; the lai; the legend, the saint's life, and the exemplum; the fabliau and the popular tale; the chronicle; allegory and satire. Significant examples of each type will be used for the investigation of particular problems.

The lectures will include discussions of the origin and development of the chief cycles of romance, of the principal literary tendencies, and of the specific influence of French types and of such French poets as Marie de France, Chrétien de Troyes, Jean de Meun, Guillaume de Machault, and Guillaume de Lorris. 2 units.

M W, 3-5, and an hour for conference to be arranged.

FRENCH

RÉGIS MICHAUD, Licencié ès Lettres, Professor of French.

LOUIS F. D. BRIOIS, A.B., Instructor in French, University Extension Division.

A. Elements of French (Double Course). (BRIOIS)

For beginners. Pronunciation, essentials of grammar, reading, conversation. Satisfactory completion of this course will give credit for matriculation subject 5c¹, provided the student has had no University course in French. 4 units.

M Tu W Th F, 9-11.

6. Composition and Conversation. (BRIOIS)

Thorough review of the principles of French grammar; much practice in writing and speaking. Permission to enter must be obtained from instructor. 2 units.

M Tu W Th F, 11.

8106. Advanced French. (MICHAUD)

Adapted particularly to the needs of teachers, and including a theoretical and practical review of French syntax, practice in present-day French with theme writing on actual topics, translation of English texts into current and idiomatic French, and a grammatical and literary analysis of French texts. 2 units.

M Tu W Th F, 2.

230. The Modern Poets of France. (MICHAUD)

Lectures in French on modern French poetry; special attention to rhythmic and versification. Among the authors treated will be the most typical French poets of the *Romantic*, *Parnassian*, and *Symbolistic* schools, including V. Hugo, Théophile Gautier, Baudelaire, Leconte de Lisle, Sully-Prudhomme, Heredia, Verlaine, Henri de Régnier, Emile Verhaeren. 2 units.

M Tu W Th F, 3.

GEOGRAPHY

MYETA LISLE MCCLELLAN, B.S., Instructor in Geography, Southern Branch.

S1A. World Geography.**(MCCLELLAN)**

A study of the chief geographic controls influencing human affairs; application of these to type regions. A discussion of the changing point of view in geography with special emphasis upon the problems of the teaching of elementary school geography. 2 units.

M Tu W Th F, 2.

S116B. Geography of South America.**(MCCLELLAN)**

A study of the influence of geographic conditions upon the life of each natural region and upon the relations of the different regions to one another. Effects of the physical features, climates, and resources of the continent upon the development and future of the several countries. Special emphasis upon the geographic influences on trade between the United States and South America. 2 units.

M Tu W Th F, 1.

GRAPHIC ART

EUGEN NEUHAUS, Assistant Professor of Decorative Design; Director of Art, Mills College.

1. Present Day Art Problems.**(NEUHAUS)**

A lecture course on some of the more important aesthetic problems which must be solved by the individual and the state. The topics will be presented with special regard to the exigencies of the present time. The subjects of the lectures are: (1) The meaning of art. (2) The place of art in education. (3) The evolution of taste. (4) Quality in art. (5) Art as a universal language. (6) Nationalism in art. (7) Is imitation art? (8) The artist and the public. (9) The artistic and the grotesque. (10) The economic value of art. (11) The relation of art to industry. (12) Art patronage. (13) The effect of the world war upon art. (14) Tendencies in art. (15) Morality and art. (16) The aesthetic problems of community life. (17) The future of American art. Open to all students without prerequisite; credit, however, will only be given on the basis of a final examination. 1 unit.

M W F, 3.**110. Seminar in Graphic Art.****(NEUHAUS)**

A course intended to improve the individual student's knowledge and control of the principles that underlie graphic representation. It is planned to recapitulate in condensed form, by means of lectures, blackboard illustration and class problems, the fundamentals of perspective, representation in light and shade, the principles of design and of color theory. 2 units.

M W F, 9-12.

HISTORY

HOMER C. HOCKETT, Ph.D., Professor of American History, Ohio State University.

WILLIAM ALFRED MORRIS, Ph.D., Associate Professor of English History.

153. English Constitutional History Since 1680. (MORRIS)

Starting with the downfall of the strong Stuart monarchy, the growth of the constitution is traced to recent times. Emphasis is laid upon the increasing power of parliament in the Restoration period, the constitutional import of the revolution of 1688, the beginnings and progress of cabinet control, the monarchy of George III, the decline of the personal influence of the crown, the unreformed House of Commons, the advance of civil and religious liberty, the reform of 1832 and the ensuing changes in legislative, judicial, and local institutions. 2 units.

M Tu W Th F, 10.

S155. History of the British Empire. (MORRIS)

A survey treating very briefly the origin of the British colonies and their administration and development in the seventeenth and eighteenth centuries and dealing chiefly with the period since 1783. Among the principal subjects to be considered are the settlement of Australia and New Zealand, the appearance of colonial self-government in Canada and its extension to other colonies, the rise of British dominion in South Africa, the formation of the great colonial unions, the crown colonies and dependencies, the movement for colonial federation, and the effects of the late war upon the empire. 2 units.

M Tu W Th F, 9.

S174. The Last Half-Century in the United States. (HOCKETT)

The chief currents in American history since the Civil War; economic and political questions and foreign relations. 2 units.

M Tu W Th F, 11.

S181. The Early Phases of the Westward Movement. (HOCKETT)

A study of the expansion of settlement from the Atlantic coast to the Ohio Valley, and of the problem of the interior basin in British, American, and international politics. Especially designed for advanced students and graduates. 2 units.

M Tu W Th F, 10.

HOME ECONOMICS

RUTH A. WARDALL, M.A., Professor of Home Economics, State University of Iowa.

ANNE SWAINSON, M.A., Instructor in Textiles.

HOUSEHOLD ART**300. Teachers' Course: Industrial Art for Elementary Grades.**

(SWAINSON)

Lectures, discussion and practical laboratory work. Designed to be of value to teachers in the primary and higher elementary grades. The hand work will be considered in the following ways: (1) as a method of teaching; (2) as a means of creating a background for new knowledge; (3) as an end in itself; (4) as an opportunity for giving training in construction suitable to the material; and (5) as a means of assisting in developing appreciation for practical beauty. Among the materials to be used are sand, clay, cement, paper, cardboard, textiles, leather, wood, metal, discarded spools, boxes, etc., and special materials found in environment. The following will be constantly considered: the viewpoint, ability and development of the child; the time allotment and size of group; the cost of supplies and use of materials at hand. Laboratory fee, \$2.00. 2 units.

Sec. 1, 8-10; Sec. 2, 10-12.

HOUSEHOLD SCIENCE**5. Household Management.**

(WARDALL)

The teaching of thrift through the keeping of household accounts and the making of family and individual budgets; the study of the choice and purchase of household equipment and supplies; value of labor-saving devices, time studies, space relations in house arrangement and care. 2 units.

M Tu W Th F, 9.

S216. Seminar.

(WARDALL)

Recent advances in the chemistry of food and nutrition, metabolism, food economics, and dietetic therapy. Prerequisite: Household Science 120A-120B or equivalent course in dietetics. 2 units.

M W F, 1-3.

JOURNALISM

ERIC W. ALLEN, A.B., Dean of the School of Journalism, University of Oregon.

1. The Collecting and Writing of News.**(ALLEN)**

Drill in gathering news; exercises and assignments in writing the news-story; the various types of newspaper narratives and how they are handled; news values considered with the aid of representative newspapers. Lectures and work on the Summer Session Californian. Text books: *Essentials in Journalism*, Harrington and Frankenburg; *Typical Newspaper Stories*, Harrington. 2 units.

M Tu W Th F, 11.

3. Newspaper Editing.**(ALLEN)**

Lectures and practical work on the Summer Session Californian, including copy reading, editorial writing, special features, newspaper make-up, proof reading, reading exchanges and discussion of policies. Open only to those students who are also registered in course 1 and to those who have had previous experience in journalism. 1 unit.

Hours to be arranged.

LATIN

ARTHUR PATCH MCKINLAY, Ph.D., Assistant Professor of Latin and French, Southern Branch.

S5D. The Metamorphoses of Ovid.

(MCKINLAY)

Introduction to the classic myths, designed to be helpful to teachers of English as well as of Latin. The readings will be studied particularly as literature. Special attention will be given to facility in translation and to relieving the student of the tyranny of the dictionary. Prerequisite: three years of high school Latin or the equivalent. 1 unit.

M W F, 8.

S300A. Problems of Teaching Latin.

(MCKINLAY)

Designed to be helpful to teachers of Latin. It will take up, by way of suggestion, such topics as correlation of Latin and English, use of exhibits, a literary approach to the classics, supplementary readings from Latin authors, home readings for teachers, and the problem of the high school curriculum in Latin. Some time will be devoted to training work, in which the members of the class will present plans for carrying out the features of the course. Those who expect to enroll should provide themselves with the writings of Caesar, Cicero, and Virgil that are usually read in high school. In addition to the regular class meetings, there will be required at least six hours per week of outside study. 1 unit.

Tu Th, 8.

S191. Cicero.

(MCKINLAY)

Few periods of history can throw light on present day problems as can the "Age of Cicero"; few authors in any age have so revealed their times as has Cicero. It will be the purpose of the course to give an introduction to the author with especial stress on such problems as education, privilege and reform, perversion of the law, administration of dependencies, and the educated man's philosophy of life. This course is designed to reveal Cicero as a field for further study, and at the same time furnish immediate help to the teacher of high school Latin. 2 units.

M Tu W Th F, 9.

MATHEMATICS

BALDWIN MUNGER WOODS, Ph.D., Professor of Aerodynamics and University Examiner.

HARRY N. WRIGHT, Ph.D., President and Professor of Mathematics, Whittier College.

S5. Plane Analytic Geometry. (WOODS)

Analytic treatment of the straight line and the circle; elementary properties of the conic sections; problems in loci; application of graphical methods to the solution of equations. 2 units.

M Tu W Th F, 8.

S6. Introduction to Projective Geometry. (WRIGHT)

A study from the synthetic point of view of geometrical forms of the first and second order. Required of all candidates for the High School Teacher's Recommendation. 2 units.

M Tu W Th F, 10.

S9. Differential Calculus. (WRIGHT)

The fundamental concepts and formulae of the differential calculus, with application to various problems in geometry, analysis and mechanics. 2 units.

M Tu W Th F, 11.

S102A. Elementary Algebra for Advanced Students. (WOODS)

Selected topics in elementary algebra with particular reference to modern points of view. Graphical interpretations of algebraic operations. Required for the High School Teacher's Recommendation. 2 units.

M Tu W Th F, 9.

MUSIC

IRVING WILLARD JONES, Ph.B., Adjunct Professor of Music Education,
University of Texas.

EDWIN EARL TOWNER, B.M., Director of Music, Fresno High School and
Junior College.

GRACE GAIL GIBERSON, Director of Music, State Normal School, Eau Claire,
Wisconsin.

A. Solfeggio.

(GIBERSON)

A course combining the elements of ear-training, sight-singing, dictation, and music writing. Its aim is primarily the equipment of the student with a practical ability to handle intelligently the facts of music, namely, musical sounds and their representation. Accordingly the course is devoted largely to practice in both melodic and rhythmic problems. Of value to all who pursue music in any form, as teachers, professionals, or music lovers. 2 units.

M Tu W Th F, 9.

1. Choral Practice.

(JONES)

Practical instruction in ensemble singing, with special attention to the needs of schools. Problems of voice testing, vocal placement as related to vowel enunciation, diction, phrasing, attack. Attention to matters of interpretation as represented by the type of material adapted to choruses of average ability. Conducting and practical items of choral concerts. While given primarily for teachers, the course is open to all students who are disposed to sing. 1 unit.

M Tu W Th F, 10.

2. Orchestral Practice.

(TOWNER)

Complete orchestra of symphonic dimensions. The study of some of the great orchestral works; excerpts from symphonies, suites and concertos, as well as shorter works by American and European composers. Opportunity will be given soloists for rehearsals of concertos, arias, songs and smaller instrumental pieces, with orchestra accompaniment. A list of material will be suggested for use in community and high school orchestras. 2 units.

M Tu W Th F, 11.

4. **Harmony.**

(TOWNER)

Intervals; triads and their inversions; four-part writing over a given bass; dictation; transposition; the dominant seventh chord and its inversions; dictation in two, three, and four voices; harmonization of melodies; consideration of parallel fifths and octaves; secondary triad of the sub-dominant and its inversions; secondary seventh chord of the sub-dominant and its inversions; adherent notes; chord of the dominant ninth and its resolution. Text: *Cumulative Harmony*, McCoy. 2 units.

M Tu W Th F, 1.

21. **Elementary Music Education.**

(GIBERSON)

Principles, materials and practices of developing music ability in children. Aims of music instruction in the grade school. Selection and presentation of rote work. The child voice, its proper and improper use and training. Development of musical feeling, and vocal and rhythmic ability, through imitation. Transition of emphasis from imitation to independent work. Development of ideas of notation. Recent tendencies in methods of instruction. "Song" and "scale" methods of teaching reading contrasted. Special emphasis on the appreciative aspect of music instruction throughout the elementary period. Part singing. The changing voice. The course of study, its significance, its preparation, and its use. The measurement of results, grades and credits. The growing place of instrumental music in the grade school. 2 units.

M Tu W Th F, 8.

22. **Advanced Music Education.**

(JONES)

A study of the problems of music instruction in the adolescent period, as encountered in the upper grades and high school, viewed in the light of current procedure. Types of work adapted to this period, materials, and methods of presentation. Vocal instruction in groups; increasing place of instrumental instruction; sol-feggio, or sight-singing and ear-training; introduction of music theory; the history and appreciation of music, viewed from the needs and possibilities of the year 1920; current musical events and their relation to schools; the measurement of musical talent and its relation to professional study; musical organizations, viewed both as social and instructional agencies. The course aims to furnish a point of view which shall transcend the routine of drill, and to supply the means to realize it. 2 units.

M Tu W Th F, 8.

PHILOSOPHY

GEORGE BOAS, Ph.D., Assistant Professor of Forensics.

116. Greek Philosophy in Relation to Modern Problems. (Boas)

A summary of the philosophy of the principal Greek thinkers, with especial reference to their attitude to contemporary problems of education, politics, art, religion, and morality. More emphasis will be laid on their philosophy of conduct than on their metaphysics. 2 units.

M Tu W Th F, 11.

137. Problems of Contemporary Philosophy. (Boas)

A summary of a few selected problems which are now occupying philosophers, with special reference to the classical points of view. Discussion will be based upon Perry's *Present Philosophical Tendencies*. 2 units.

M Tu W Th F, 1.

PHYSICAL EDUCATION

ERNEST G. SCHROEDER, Director of Physical Education, State University of Iowa.

FREDERICK WARREN COZENS, M.A., Assistant Professor of Physical Education, Southern Branch.

LUCILE HALWICK, A.B., Physical Director, High School, Stockton.

SVEN RICHARD LOKRANTZ, M.D., Acting Supervisor of Corrective Physical Procedure, Los Angeles City Schools.

HOWARD H. SNYDER, Instructor in Swimming in the Summer Session.

FLORENCE EDITH SUTTON, Assistant in Tennis, Southern Branch.

GENERAL INFORMATION

The work of the Department of Physical Education will be under the general direction of Professor Cozens.

Gymnasium costumes will be required for all floor and field courses. Women should provide themselves with bloomers, middy blouse and tennis shoes. Those enrolled in the dancing courses should also have a short skirt over bloomers and dancing slippers. Men should have athletic shirt, tennis trousers and gymnasium shoes.

The University will supply lockers and towels. A fee of \$1.00 for the use of towels and shower bath privileges is required of all those enrolled in field or floor courses. This fee is not refunded. Men and women may obtain steel lockers in the gymnasium upon the payment of a \$1.00 deposit for the key. This deposit is refunded upon the return of the key. Students may furnish their own padlocks for lockers either in the men's or women's gymnasium. (See courses listed below for which physical examination is required.)

All women enrolled in swimming are required to pay an added fee of \$5.00 (plus war tax) for the use of the plunge at Bimini Baths. A swimming card will be issued by the Comptroller to all paying this fee. This card must be presented at the Baths at each meeting of the class.

The University tennis courts will be open during the entire Summer Session and regular classes organized for instruction in tennis. An instructor is provided, and a tournament will be arranged for the benefit of all the students in the session.

No visitors will be admitted to physical education classes except by special arrangement with the instructor upon approval of the Dean.

A physical examination will be required of all those taking the strenuous courses. Courses included in this category are S1AB, 10B, S11A, 15A, 15B, 16AB, 16CB, 21AB, 21EF. Physical examinations for women will be conducted in the Women's Gymnasium at special hours during the first week of the session. Appointments must be made at the gymnasium office the first day of the session. Physical examinations for men will be conducted at the Men's Gymnasium during the second and third days of the session. Appointments for these examinations must also be made the first day of the session at the office in the Women's Gymnasium.

Those who have not had the elementary courses in dancing and playground activities and wish to enter the advanced work must pass a practical examination given by the instructor in charge.

Students wishing to take work in the Department of Physical Education but desiring no credit therefor, must record these courses on the study lists which they file at the Recorder's Office, and must also fill out enrollment cards in the classes concerned.

Careful attention must be paid to all notices posted on the gymnasium bulletin boards regarding the work of the department.

S1AB. Elementary Gymnastics.

(HALWICK)

Methods of class arrangement and squad division. Fundamental positions and movements of the body without apparatus; simple exercises and drills with hand apparatus such as wands, bar-bells, dumb-bells, and Indian clubs. Serial exercises with music. Nomenclature essentials. A few elementary exercises on heavy apparatus will be given. Elementary gymnastic dancing. 1 unit.

M Tu W Th F, 11.

10A. Swimming for Women.

(SNYDER)

For students desiring to learn to swim, and for those desiring to increase their own proficiency. A special section of one of the three pools at Bimini Baths will be reserved for the use of the class during the instructional period. A fee of \$5.00 plus war tax is charged in connection with this course and entitles the student to the use of the pool for 25 instructional periods. Everything is furnished by the baths except a bathing cap. Only those regularly enrolled will be admitted to the class during the period of instruction.

Enrollment in this class should take place during office hours at the Director's Office, Gymnasium Building, on Monday, June 21, and thereafter at specially appointed hours, as posted on the bulletin boards. No enrollments are accepted without the payment of the special fee.

M Tu W Th F, 4:30-5:00.

511A. Tennis.

(SUTTON)

For those who wish to qualify for positions as tennis instructors and for all who wish to become more proficient, whether they are interested primarily in physical education or not. Both elementary and advanced work will be offered. $\frac{1}{2}$ unit.

Sec. 1, M W F, 8; Sec. 2, M W F, 9; Sec. 3, M W F, 10.

15A. Folk Dancing for Schools and Playgrounds.

(HALWICK)

Practical work in folk dances selected and arranged to meet the needs of the school and playground. Folk dances of the various nations, their analysis and a discussion of their origin and meaning; dances which meet the physical, moral and social needs, and yet are sufficiently simple to be thoroughly enjoyed by children without a great amount of practice. These dances supply a natural outlet for the spontaneous rhythmic expression of the child. Care has been exercised in the selection of those dances which have been found by observation to appeal most strongly to the child and should thus occupy a permanent place in the child's social training. $\frac{1}{2}$ unit.

M W F, 1.

15B. Advanced Folk Dancing.

(HALWICK)

Folk and national dances, given primarily for school purposes, including dances suitable for festivals and pageants; they are of especial interest not only from the standpoint of the enjoyment of the dance, but as an expression of a nation's character and of the customs and spirit of the world's peoples. $\frac{1}{2}$ unit.

Tu Th, 1 and a third hour to be arranged.

16AB. Elementary Dancing.

(HALWICK)

Planned primarily for teachers of dancing in departments of physical education, and intended to impart a technical knowledge of the material from the teacher's viewpoint. 1 unit.

M Tu W Th F, 9.

16CD. Advanced Dancing.

(HALWICK)

The technique of dancing as taught in the Russian, French, and Italian opera schools. The work will include instruction in classic, interpretative, pantomimic, eurhythmic, character, and Russian ballet dancing. Only those who have a knowledge of the elementary technique and skill in execution will be permitted to enroll. Two additional hours required for practice. 1 unit.

M Tu W Th F, 10.

21AB. Playground Activities (School and Municipal): Elementary.

(COZENS)

For students and teachers wishing to learn the elementary activities of the playground so that they may assist with physical education in elementary schools. Opportunity will be offered not only to learn the games and become proficient in playing them but also to lead the group and take complete charge of the activities of the period. 1 unit.

M W F, 3:45-5:30.

21KF. The Coaching of Elementary School Sports.

(COZENS)

For elementary school teachers who have a knowledge of the games but who wish to familiarize themselves with the more highly developed team play. The following sports will be dealt with in a technical manner: soccer, baseball, basket ball (both for girls and boys), and track and field events. 1 unit.

M W F, 2:00-3:45.

S100AB. History, Theory and Administration of Physical Education.

(SCHROEDER)

A study of the modern history of physical education as a background for the broader conception of the aims and ideals of modern physical education; the educational analysis of all types of physical endeavor with reference to the general theory of education Methods of organization and administration. 2 units.

M Tu W Th F, 9.

S112A. Therapeutic Gymnastics.

(LOKRANTZ)

Signs and symptoms indicating physical defects with simple tests for their detection and measurement. The elements of corrective gymnastics included within the scope of the physical training teacher; the latest approved methods and exercises used for corrective and therapeutic purposes; the treatment of various bodily deformities and deficiencies. The fundamentals of corrective and orthopedic gymnastics and Swedish movements will be included. Additional outside work in the form of set assignments or clinical work will be required. 1 unit.

M Tu W Th F, 1.

S121AB. The Theory and Practice of Teaching.**(SCHROEDER)**

Summary of the problems of organization and administration of physical education in both high schools and grammar schools. Adjustment of the physical education programme to the school-room, schoolyard, and gymnasium, and to the general school curricula; consideration of the inadequate provisions of time, space, and equipment in most schools. Class organization, programmes of play, drill, and corrective exercises. Voice training and the practice of teaching. Adaptation of formal work, free play, and schoolyard athletics to a well-balanced programme of physical education. Two hour period—one hour, lecture and demonstration; one hour, practice in teaching games and gymnastics. 2 units.

M Tu W Th F, 10-12.

S122A. The Organisation of Physical Training Activities for Schools and Playgrounds.**(COZENS)**

Details of the organization of physical training activities; especially designed to meet the needs of grade teachers in charge of, or assistants in, the work in schools. Special emphasis will be put upon the place of play in physical education and the management of the playground, school and municipal. There will be a thorough discussion of the work outlined in the State Manual. 1 unit.

M Tu W Th F, 8.

PHYSICS

JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics, Southern Branch.

S2A. General Physics.**(ADAMS)**

A development of the fundamental mechanical ideas which underlie the subject of physics, and an application of them in discussing such topics as rectilinear motion under a constant force, uniform circular motion, vibratory motion, production and transmission of sound, elements of the kinetic theory of gases, heat as a form of energy. No previous knowledge of the subject will be assumed, but a year's work in elementary physics would be a desirable preparation for the course. 3 units.

M Tu W Th F, 9; laboratory, Tu Th, 1-4.

S105A. Analytic Mechanics.**(ADAMS)**

An introductory course in analytic mechanics, dealing with the dynamics of a particle and the statics of a rigid body. As much knowledge of the calculus as may be obtained by taking Mathematics S9 concurrently, will be assumed. 2 units.

M Tu W Th F, 10.

POLITICAL SCIENCE

THOMAS HARRISON REED, A.B., LL.B., Professor of Municipal Government.

3. Problems of Popular Government in the United States. (REED)

A non-technical discussion of the more serious political problems confronting the American people today. Among the subjects considered will be: the president and the senate in treaty making; the president's relation to congress and the people; the national budget; the reorganization of state administration; reform of state legislatures; the failure of the direct primary; party organization and methods; direct legislation; courts and popular government, and the causes and methods of political corruption. Open to all students of the Summer Session. 2 units.

M Tu W Th F, 1.

111. Post-War Democracy. (REED)

The nature of political democracy; its relation to industrial and social democracy; the conflict with sovietism, syndicalism, guild socialism, etc.; sovereignty in the democratic state; the protection of individual rights; individual development in political democracy; the democratic state and world democracy. This course is intended to demonstrate the essential validity of American political institutions. Open to all students of at least junior standing without prerequisite, and to others with the consent of the instructor. 2 units.

M Tu W Th F, 2.

PUBLIC HEALTH

HERBERT F. TRUE, M.D., Director of the Health and Development Department, Los Angeles City Schools; Assistant Health Commissioner, City of Los Angeles.

GAVIN J. TELFER, M.D., State District Health Officer, California Board of Health.

WILLIAM LELAND HOLT, M.D., Deputy Health Officer, Los Angeles County Health Department.

S3. Elementary Epidemiology.**(TELFER)**

The sources of infection and methods of transmission of the principal communicable diseases. A study of representative epidemics together with control procedures which have become accepted as standard. Lectures and assigned readings. 2 units.

M Tu W Th F, 9.

S104. Health Administration and Office Practice.**(HOLT)**

Health administration from the secretarial standpoint. The scope of federal, state, county, and municipal health supervision; health department equipment; relative values in health work; health department surveys; suitable cost and time distribution records as a guide for the executive; laws and ordinances as a basis for procedure; legal aspects of records; a study of the field procedure in each phase of health department work in relation to the record systems designed to serve as a daily index of the need for action along the various lines; the collection of data for statistical studies which shape the broader policies of the department; graphic presentation of data in health reports and other publicity work of the secretary; methods of handling correspondence, classifying and filing information. 2 units.

M Tu W Th F, 8.

105. Child Welfare.**(TRUE)**

Designed for those who wish to gain a broad view of modern child welfare. It is not intended to train experts nor to take the place of the regular course in public health nursing in the University. It will appeal to nurses, health visitors, social service workers and others who care to study child hygiene in its relation to public

health. The course will cover the principal activities for child welfare from the prenatal period to adolescence. An attempt will be made to integrate these with other phases of public health and to define the duties of health officers, public health nurses, health visitors, and social service workers. The development of child welfare in this country will be outlined. Modern standards of child welfare will be considered. The organization of health centers will receive considerable attention. Lectures, assigned readings, discussions, and, as far as possible, field work in various types of child welfare will comprise the course. 2 units.

M Tu W Th F, 10.

106. School Hygiene.

(TRUE)

This course will be adapted to school nurses, physical education instructors, principals, and teachers. The following topics will be considered: the object of health development in the educational system; public health aspects of school hygiene; organization and administration of health work in public schools and the relation of school physicians, nurses, principals and teachers to the same; the question of remediable defect of school children, and practical methods of correction; the detection and control of communicable diseases in the school; the value of dental clinics, nutrition classes and open air schools; the teaching of hygiene by practical demonstrations and the project method and coöperative possibilities between the health development department, home economics, physical education, and science. Lectures, assigned readings, discussions, and, where available, actual demonstrations with school children will make up this course. 2 units.

M Tu W Th F, 11.

PUBLIC SPEAKING

ELIZABETH MACK, Lecturer in Interpretative and Dramatic Reading.

SARA HUNTSMAN, B.S., Assistant Professor of Public Speaking, Utah State College.

S83A. The Training of the Speaking Voice. (HUNTSMAN)

A study of the fundamental principles of correct voice production with practical application of the principles to reading and speaking. Individual defects in voice and speech pointed out and methods of improvement suggested. Supplementary work in vocal expression and public speaking. 2 units.

M Tu W Th F, 8.

S10A. Fundamentals of Acting. (MACK)

The aim of the course is two-fold. First, to pass in review the general principles of the psychology of acting and to afford drill in practical essentials—in dramatic reading, in exercises designed to foster and develop the dramatic instinct, in the visualization of situations, in the sympathetic portrayal of character, etc. Second, to emphasize the intimate relation that exists between acting and the study of the drama as literature. 2 units.

M Tu W Th F, 10.

S107A. Vocal Interpretation. (HUNTSMAN)

A study of the principles that make for the effective interpretation of literature and their application to public reading. The primary aim of the course will be to develop the ability to interpret the printed page with adequate vocal and emotional response. Ballads, lyrics, short stories and scenes from Shakespeare's plays and from modern plays of literary merit will be assigned for individual study. 2 units.

M Tu W Th F, 9.

S117A. The Staging and Presentation of Plays. (MACK)

The course will include both theory and practice. It will deal among other matters with plays, the method of dramatic analysis, practical solutions of stage problems, the recognition of dramatic values, delineation of character, impersonation, the psychology of action. 2 units.

M Tu W Th F, 11.

SPANISH

BENJAMIN P. BOURLAND, Ph.D., Professor of Romance Languages, Western Reserve University.

FELIX S. CABELLO, A.B., Instructor in Spanish, Johns Hopkins University.

MALBONE WATSON GRAHAM, D.D., Instructor in Spanish.

A. Elements of Spanish (Double Course). (GRAHAM)

For beginners. Pronunciation, essentials of grammar, reading, conversation. Satisfactory completion of this course will give credit for matriculation subject 5e¹, provided the student has had no university course in Spanish. 4 units.

M Tu W Th F, 9-11.

B. Advanced Elementary Spanish. (GRAHAM)

Translation of prose and verse, rapid reading, conversation, conducted mainly in Spanish. Prerequisite: the elements of Spanish. Satisfactory completion of courses A and B will give credit for matriculation subject 5e². 2 units.

M Tu W Th F, 1.

50. Literary and Artistic Life in the Madrid of Today. (CABELLO)

A series of lectures in Spanish designed to reveal contemporary literary and artistic activity in Madrid; the more important authors and artists will be treated, and their more significant works discussed. 2 units.

M Tu W Th F, 1.

S103A. Spanish Literature of the Nineteenth Century and After.

(BOURLAND)

Lectures, with reading from important works of the period. Students will be expected to read: Valera, *Pepita Jiménez*; Pérez Galdós, *Doña Perfecta*; Pardo Bazán, *Pedro Sánchez*; Palacio Valdés, *La Hermana San Sulpicio*. The unabridged texts published in Spain are to be preferred to the editions published in this country for school and college use. 2 units.

M Tu W Th F, 9.

106. Conversation and Composition.

(CABELLO)

Conducted wholly in Spanish. 2 units.

M Tu W Th F, 2.

300A. Course for Teachers.

(BOURLAND)

A careful study of the more important aspects of Spanish grammar, with a discussion of methods of teaching. There will be much attention to translation into Spanish, and to free composition. 2 units.

M Tu W Th F, 10.

DIVISION OF VOCATIONAL EDUCATION**TRADE AND INDUSTRIAL EDUCATION**

GEORGE W. GALBRAITH, Supervisor of Classes for Teachers of Trade and Industrial Subjects, Los Angeles Center.

HELEN S. WATSON, B.S., Assistant Superintendent of Schools, Los Angeles.

Miss LAURIEL RANDALL, Instructor Teacher Training Classes, Trade and Industrial Education, Los Angeles Center.

FREDERICK D. HOOD, A.B., Head of the Mechanics Art Department, Polytechnic High School, Los Angeles; Assistant Supervisor Smith-Hughes Teacher Training Center, Southern Branch.

JOHN GEORGE MILLER, E.M., Head of the Mechanics Art Department, Venice Union Polytechnic High School, Instructor Smith-Hughes Teacher Training Center, Southern Branch.

GEORGE E. SPRINGER, Instructor Electrical Engineering, Manual Arts High School, Los Angeles Center.

FRANCIS B. HEARD, Instructor in Sheet Metal, Lincoln High School, Los Angeles Center.

HAROLD HESS, Instructor in Auto Machine Shop, Lincoln High School, Los Angeles Center.

CHARLES J. YAGER, Instructor in Machine Shop, Lincoln High School, Los Angeles Center.

RAYMOND J. CASEY, Instructor in Woodshop, Lincoln High School, Los Angeles Center.

JESSIE BODWELL FOOTE, Instructor in Printing, Lincoln High School, Los Angeles Center.

The courses here listed are designed primarily to prepare teachers for service in vocational schools and classes maintained under the provisions of the State and Federal Vocational Education Acts, and the recent State Compulsory Part-Time Education Act, which becomes effective with the beginning of the school year 1920. Attention is called to courses of general interest in the field of vocational education and courses for superintendents, principals, and other administrative officers under the following headings in other parts of this announcement: Education, Economics, Commercial Practice, and Home Economics.

The Federal Board for Vocational Education is coöperating with the Summer Session by sending Lewis H. Carris, Field Representative, for a general conference during the week of July 5. Mr. Carris will be

available for individual conferences, group meetings, and general addresses in the field of Vocational Education. Details will be announced at a later date.

Special announcements, covering in detail the field of Trade and Industrial Education in the Summer Session, including courses, special conferences and lectures, as well as other matters of interest, may be obtained upon request by writing to the office of the Dean of the Summer Sessions or to Geo. W. Galbraith, Supervisor of Classes for Trade and Industrial Teachers, 451 North Hill Street, Los Angeles.

COURSES OF INSTRUCTION FOR TRAINING TRADE AND INDUSTRIAL TEACHERS

All courses are offered on the campus of the University of California, Southern Branch, except S6, Industrial Practice for Supplemental Teachers, which will be held in shops and laboratories of public schools of the local region.

S1. Trade Analysis and the Organization of Subject Matter for Trade Work for Men. (MILLER)

M Tu W Th F, 9-11. 3 units.

S1A. Trade Analysis and the Organization of Subject Matter for Trade Work for Women. (RANDALL)

M Tu W Th F, 9-11. 3 units.

S2. Theory and Administration of Industrial Education. (MILLER)

M Tu W Th F, 11. 2 units.

S3. Content of Supplemental Trade Subjects. (HOOD)

M Tu W Th F, 1-3. 3 units.

S4. Teaching in Part-Time Schools. (WATSON)

M Tu W Th F, 9. 2 units.

S5. Content and Method of Instruction for Supplemental Subject Teachers. (HOOD)

M Tu W Th F, 10. Consultation, 11-12 daily. 2 units.

S6. Industrial Practice for Supplemental Subjects Teachers. (SPRINGER, HEARD, HESS, YAGER, CASEY, FOOTE)

M Tu W Th F, 1-4. 2 units.

DEPARTMENTAL ADVISERS**FOR GRADUATE AND UNDERGRADUATE WORK****SUMMER SESSION IN LOS ANGELES, 1920**

*Agriculture	Mr. C. F. Palmer	†419 South Olive Street, Los Angeles
Chemistry	Mr. W. C. Morgan	Reed College, Portland, Ore.
*Commercial Practice	Mrs. Eva M. Allen	Southern Branch, University of California, Los Angeles
Criminology	Dr. E. B. Hoag	Juvenile Court, Los Angeles
*Division of Vocational Education	Mr. G. W. Galbraith	451 North Hill St., Los Angeles
Economics	Mr. I. B. Cross	22 Benjamin Ide Wheeler Hall
Education	Mr. R. J. Leonard	315 University Library
English	Mr. H. L. Bruce	450 Benjamin Ide Wheeler Hall
French	Mr. Regis Michaud	473 Benjamin Ide Wheeler Hall
Geography	Miss Myrta L. McClellan	Southern Branch, University of California, Los Angeles
Graphic Art	Mr. Eugen Neuhaus	2922 Derby st., Berkeley, Calif.
History	Mr. W. A. Morris	30 Benjamin Ide Wheeler Hall
Household Art	Miss Anne Swainson	101 Home Economics Building
Household Science	Miss Ruth A. Wardall	State University of Iowa, Iowa City
*Journalism	Mr. Eric W. Allen	University of Oregon, Eugene
Latin	Mr. M. E. Deutsch	105 California Hall
Mathematics	Mr. B. M. Woods	201 California Hall
*Music	Mr. I. W. Jones	University of Texas, Austin
Philosophy	Mr. George Boas	414 Benjamin Ide Wheeler Hall
Physical Education	Mr. F. W. Cosens	Southern Branch, University of California, Los Angeles
Physics	Mr. J. M. Adams	Southern Branch, University of California, Los Angeles
Political Science	Mr. T. H. Reed	431 Benjamin Ide Wheeler Hall
Public Health	Dr. H. F. True	419 South Olive street, Los Angeles
Public Speaking	Miss Elizabeth Mack	462 Benjamin Ide Wheeler Hall
Spanish	Mr. M. W. Graham	427 Benjamin Ide Wheeler Hall

†Addresses, unless otherwise indicated, are at the University of California, Berkeley, Calif.

*Indicates departments in which neither upper division nor graduate courses are to be offered during the Summer Session, 1920.

**SCHEDULE OF EXERCISES FOR THE SUMMER SESSION IN
LOS ANGELES, 1920**

Subject to revision at the opening of the session.

A bulletin indicating the rooms in which classes will meet will be ready for distribution on the first day of the session.

All classes meet Monday, Tuesday, Wednesday, Thursday, and Friday, unless otherwise specified. Recitations and lectures last fifty-three minutes, with intervals of seven minutes. The periods begin at seven minutes past the hour and end on the even hour.

8:07 a.m.

Commercial Practice C, Michael.
Commercial Practice G, Plough.
Education 115, Darsie.
Education 149, Shiels.
English S123, Williamson.
Home Economics 300, Section 1 (2 hours), Swainson.
Latin S5D, (M W F), McKinlay.
Latin S300A (Tu Th), McKinlay.
Mathematics S5, Woods.
Music 21, Giberson.
Music 22, Jones.
Physical Education S11A, Section 1 (M W F), Sutton.
Physical Education S122A, Cozens.
Public Health S104, Holt.
Public Speaking S3A, Huntsman.

9:07 a.m.

Commercial Practice E, Weber.
Division of Vocational Education S1 (2 hours), Miller.
Division of Vocational Education S1A (2 hours), Randall.
Division of Vocational Education S4, Watson.
Economics S1, Cross.
Education 104, Shiels.
Education 116, Dearborn.
Education 178, Gosling.
Education 260, Leonard.
English S1C, Williamson.
English 149, Bruce.
French A (2 hours), Briois.
Graphic Art 110 (3 hours, M W F), Neuhaus.
History S155, Morris.

Home Economics 5, Wardall.
 Home Economics 300, Section 1 (continued), Swainson.
 Latin S191, McKinlay.
 Mathematics S102A, Woods.
 Music A, Giberson.
 Physical Education S11A, Section 2 (M W F), Sutton.
 Physical Education 16AB, Halwick.
 Physical Education S100AB, Schroeder.
 Physics S2A (and Tu Th, 1-4 p.m.), Adams.
 Public Health S3, Telfer.
 Public Speaking S107A, Huntsman.
 Spanish A (2 hours), Graham.
 Spanish S103A, Bourland.

10:07 a.m.

Chemistry S161 (M W F), Morgan.
 Commercial Practice D, Michael.
 Division of Vocational Education S1 (continued), Miller.
 Division of Vocational Education S1A (continued), Randall.
 Division of Vocational Education S5, Hood.
 Economics 152, Cross.
 Education 117, Dearborn.
 Education S146, Gosling.
 Education S207, Mead.
 English 140, Axson.
 English S155, Bruce.
 French A (continued), Briois.
 Graphic Art 110 (continued: M W F), Neuhaus.
 History 153, Morris.
 History S181, Hockett.
 Home Economics 300, Section 2 (2 hours), Swainson.
 Mathematics S6, Wright.
 Music 1, Jones.
 Physical Education S11A, Section 3 (M W F), Sutton.
 Physical Education 16CD, Halwick.
 Physical Education S121AB (2 hours), Schroeder.
 Physics S105A, Adams.
 Public Health 105, True.
 Public Speaking S10A, Mack.
 Spanish A (continued), Graham.
 Spanish 300A, Bourland.

11:07 a.m.

Chemistry A (laboratory, 1-4 p.m.), Morgan and Just.
 Commercial Practice F, Weber.
 Division of Vocational Education S2, Miller.
 Economics 159, Wolfe.
 Education S123, Mead.
 Education 261, Leonard.
 English 139, Axson.
 French 6, Briois.
 Graphic Art 110 (continued: M W F), Neuhaus.

History S174, Hockett.
Home Economics 300, Section 2 (continued), Swainson.
Journalism 1, Allen.
Mathematics S9, Wright.
Music 2, Townner.
Philosophy 116, Boas.
Physical Education S1AB, Halwick.
Physical Education S121AB (continued), Schroeder.
Public Health 106, True.
Public Speaking S117A, Mack.

1:07 p.m.

Chemistry A (continued), Morgan and Just.
Commercial Practice A (and 3 p.m.), Allen.
Criminology 113A, Hoag.
Division of Vocational Education S3 (2 hours), Hood.
Division of Vocational Education S6 (3 hours), the Staff.
Economics 3, Wolfe.
Education 112, Waddle.
English S125, MacMinn.
Geography S116B, McClellan.
Home Economics S216 (M W F, 2 hours), Wardall.
Music 4, Townner.
Philosophy 137, Boas.
Physical Education 15A (M W F), Halwick.
Physical Education 15B (Tu Th and a third hour), Halwick.
Physical Education S112A, Lokrantz.
Physics S2A (continued: Tu Th), Adams.
Political Science 3, Reed.
Spanish B, Graham.
Spanish 50, Cabello.

2:07 p.m.

Agriculture 4 (3 hours), Palmer.
Chemistry A (continued), Morgan and Just.
Commercial Practice B (and 4 p.m.), Allen.
Criminology 113F, Hoag.
Division of Vocational Education S3 (continued), Hood.
Division of Vocational Education S6 (continued), the Staff.
Economics 89, Collier and Miller.
Education 128, Noonan.
English S101A, MacMinn.
English S111c, Brodeur.
French S106, Michaud.
Geography S1A, McClellan.
Home Economics S216 (continued, M W F), Wardall.
Physical Education 21F (2-3:45 p.m., M W F), Cozens.
Physics S2A (continued: Tu Th), Adams.
Political Science 111, Reed.
Spanish 106, Cabello.

3:07 p.m.

Agriculture 4 (continued), Palmer.
Chemistry A (continued), Morgan and Just.
Commercial Practice A (continued), Allen.
Division of Vocational Education S6 (continued), **the Staff.**
Economics 52, Collier and Miller.
Education 113, Waddle.
Education 129, Noonan.
English S 242 (2 hours, M W), Brodeur.
French 230, Michaud.
Graphic Art 1 (M W F), Neuhaus.
Physical Education 21AB (M W F, 3:45-5:30), Cozens.
Physical Education 21EF (continued: M W F), Cozens.
Physics S2A (continued: Tu Th), Adams.

4:07 p.m.

Agriculture 4 (continued), Palmer.
Commercial Practice B (continued), Allen.
English S242 (continued, M W), Brodeur.
Physical Education 10A (4:30-5:00), Snyder.
Physical Education 21AB (continued: M W F), Cozens.

5:07 p.m.

Physical Education 21AB (continued: M W F), Cozens.

GRADUATE DIVISION**SUMMER SESSION IN LOS ANGELES, 1920**

Following is the complete list of the courses given during the Summer Session of 1920 which will be accepted in partial fulfillment of the minimum requirement of 20 units for the Master's Degree or 18 units for the High School Teacher's Recommendation (or for the minimum requirement of 9 units for the High School Teacher's Recommendation on the half-year basis):

I. Accepted as Graduate Courses.

Education S207, 260, 261.
English S 242.
French 230.
Home Economics:
 (Household Science) S216.

II. Undergraduate Courses which may be included in a Programme for the Master's Degree or Teacher's Recommendation.

Chemistry *S161.
Criminology 113A, 113F.
Economics 152, 159.
Education 104, 115, S146, 149, 178, 112, 113, 116, 117, S123, 128, 129.
English S101A, S111C, S123, S125, 139, 140, 149, S155.
French S106.
Geography S116B.
Graphic Art 110.
History 153, S155, S174, S181.
Home Economics:
 Household Art 300.
Latin S191, S300A.
Mathematics S102A.
Philosophy 116, 137.
Physical Education S100AB, S112A, S121AB, S122A.
Physics S105A.
Political Science 111.
Public Health S104, 105, 106.
Public Speaking S107A, S117A.
Spanish 106, S103A.

* For High School Teacher's Recommendation only.

DIRECTIONS

1. On or before Wednesday, June 2, if possible, file application with the Recorder of the Faculties, University of California, Berkeley, California. This may be done by mail. See Application Form at the end of this bulletin.
2. Before Monday, June 14, if possible, select lodgings in Los Angeles.
3. Saturday, June 19—Monday, June 21—Registration at Millspaugh Hall, Southern Branch. (a) Register your college address with the Recorder on the card provided for that purpose; (b) obtain from the Recorder an admission card and blank study card; (c) show your admission card to the Comptroller of the University; (d) pay necessary fees, and (e) have your admission card stamped by the Comptroller; (f) this card is to be shown on demand to the officers in charge of the classes, at the first meetings of the classes, or at any time during the session. Students may register between 8:30 a.m. and 12 m. on Saturday, or between 8:30 a.m. and 4:30 p.m. on Monday.

Students who can conveniently do so are advised to register with the Recorder and pay their fees to the Comptroller on Saturday, June 19, in order to gain time for consultation with their instructors and for other preliminaries on Monday. Fees may be paid from 8:30 a.m. to 12 m. on Saturday, and from 8:30 a.m. to 3 p.m. on Monday.

The regular class exercises will begin Monday, June 21.

4. On Monday, June 28, return your study card, duly filled out, to the Recorder. It is necessary for auditors, as well as regular students, to file study cards.
5. To obtain a certificate of record, showing the courses elected during the session and the grade attained in each, deposit a self-addressed stamped envelope with the Recorder at the close of the session, and a certificate will be mailed to you.

OFFICE HOURS OF THE DEAN

The Dean of the Summer Session will keep office hours in Millspaugh Hall daily, except Saturday, 11-12.

CIRCULARS OF INFORMATION

For circulars of information concerning the several colleges and departments of the University, please write to the Recorder of the Faculties, University of California, Berkeley, California, mentioning the department or study in which you are interested.

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[Application form on reverse side.]

APPLICATION FORM

Applications should, if possible, be filed with the Recorder of the Faculties, Berkeley, California, *on or before June 2*. In the event that the applicant expects to attend the Intersession at Berkeley, the form should be filed with the Recorder of the Faculties *on or before April 21*. It may be sent by mail. In case of adverse action by the Faculty upon an application for admission to the Summer Session, the applicant is notified immediately, by mail; in other cases no acknowledgment or other notice is sent. Additional application forms may be obtained by addressing the Recorder of the Faculties, University of California, Berkeley, California.

Expect to attend Intersession at Berkeley (May 10-June 19)

Expect to attend Summer Session (beginning June 21) at
(Berkeley or Los Angeles)

Are you over 21 years of age? Your age, if under 21:

High schools, academies, and colleges or normal schools attended, with periods and *dates* of attendance; also dates of graduation and degrees, if any. (Full information is desired. Write on reverse if necessary.)
.....
.....

U. C. Summer Sessions attended, years:

Occupation:

References

(Names and addresses of school officers or others from whom information about you may be obtained)

Specify the summer courses in which you may desire to enroll—by department and *number*, e.g., Philosophy 1, English 114:
.....
.....

(It must be understood that the University may find it necessary to make changes, either in the courses announced or in the schedule of hours)

Present address:

Date:, 1920.

Name (signed) *in full*:
(Avoid initials and other abbreviations)

Permanent P. O. address

(Where you should be addressed after the Summer Session)

REGISTER—PART VII

CALIFORNIA SCHOOL OF FINE ARTS

DECEMBER, 1920

CALIFORNIA SCHOOL OF FINE ARTS

BOARD OF DIRECTORS

ARTHUR BROWN, JR., President.	JOHN I. WALTER.
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FACULTY

DAVID P. BARROWS, Ph.D., LL.D., President of the University.
LEE F. RANDOLPH, Director, and Professor of Painting, Drawing and Anatomy.
E. SPENCER MACKY, Dean of the Faculty and Professor of Painting and Drawing.
RALPH STACKPOLE, Professor of Sculpture.
CONSTANCE L. MACKY, Assistant Professor of Painting and Drawing.
GERTRUDE PARTINGTON-ALBRIGHT, Assistant Professor of Drawing.
ALICE B. CHITTENDEN, Assistant Professor of Drawing.
GOTTARDO PIAZZONI, Associate Professor of Painting.
RUDOLPH SCHAEFFER, Instructor in Design.
RAY S. BOYNTON, Instructor in Illustration.
HAROLD VON SCHMIDT, Instructor in Graphic Art.

The property known as the California School of Fine Arts is situated at the corner of California and Mason streets, San Francisco. Originally certain buildings occupied this half block which extends from California street to Pine street, the whole having been given by Mr. Edward F. Searles to the Regents of the University of California in February, 1893, for the purposes of instruction in and illustration of the fine arts, under the memorial title of the Mark Hopkins Institute of Art. At the same time the Art Institute became affiliated with the University of California pursuant to sections 1391 and 1396 of the Political Code of California, and under the terms of a trust agreement between Mr. Searles, the Regents of the University, and the Art Association, the Art Association entered upon the occupancy and uses of the property for the purposes named. In 1906 the memorial buildings of the Mark Hopkins Institute

were destroyed in the general fire of that year, and the land reverted to Mr. Searles, who in January, 1907, redeeded it to the Board of Regents for the purpose of an institute of art under the management of the San Francisco Art Association and with the title of the San Francisco Institute of Art. A building of a temporary nature, but well adapted to its uses, was erected upon the lot, and here the California School of Fine Arts is now conducted. Its course embraces tuition in drawing, painting, modeling, and decorative design in all their branches. It holds an exhibition of the work of the pupils at the end of the school year.

In all the classes, whether in drawing and painting, design or sculpture, the instructors emphasize those essentials of imagination, line, proportion, construction, and color that must contribute equally to the making of pictures and mural paintings, to design, and to the many practical applications of art in the everyday world, usually called "Commercial Art."

COURSES OF STUDY

The following are the courses of study, no preliminary qualifications being required for entrance to the school.

REGULAR COURSE

PREPARATORY

Drawing and Modeling—Drawing from casts and from still life; sketching from the costumed model; modeling from casts.

ADVANCED

Perspective—A course of lectures on perspective, with instruction in its practical application.

Anatomy—A course of lectures demonstrated by models, charts, etc., with textbooks.

Composition—A course given in connection with all life classes.

Portrait—For drawing, painting, and modeling from the head and the figure in costume.

Life (separate classes for men and women)—For drawing, painting, and modeling from the figure.

SPECIAL COURSES

Decorative Design—A course in decorative art and its practical application to industrial problems.

Illustration—For books, magazines, etc., with special regard for composition and for literary features.

Handicrafts—Courses in batik dyeing, wood-block printing and application of designs to textiles for wearing apparel and interior decoration.

Students are required to take the work in the regular course in connection with these special courses.

The school authorities reserve the right to omit any course or branch of study when the attendance does not in their opinion warrant its continuance.

NIGHT SCHOOL

MONDAY, WEDNESDAY, FRIDAY

Hours, 7 to 10 p.m.

The night school offers special opportunities to those young men and women who can study only at night, by providing a course of study that practically duplicates that of the day school. Classes in drawing, painting, sculpture, decorative design, and commercial art have been established.

SATURDAY CLASSES

These classes, for children and adults, are held throughout the entire year and have been eminently successful. Drawing from still life, antique, and the portrait model. Advanced students work in color.

TUITION FEES

The following are the fees charged for tuition, payable in advance:

Ten half days per week	\$15 month	\$55 term
Five half days per week	\$11 month	\$40 term
Two half days per week (Life and Portrait classes excepted)	\$7 month	\$25 term
Night School—Monday, Wednesday, Friday—three nights per week	\$7 month	\$21 term
Saturday Class (9 a.m. to 4 p.m.)	\$5 month	\$16 term
Special Class in Landscape Painting, Saturday all day	\$7 month	\$25 term

All students enrolled for ten half days per week have the privilege of attending the Landscape Class without extra charge. To all other regular students a rate of \$5 a month is made.

An enrollment fee of one dollar is charged.

Locker fee of one dollar is charged for rent of locker for a term or less.

California School of Fine Arts

SCHEDULE OF CLASSES

MORNING SESSIONS: 9 TO 12

Monday	Tuesday	Wednesday
LIFE CLASS <i>Lee F. Randolph</i>	LIFE CLASS <i>Lee F. Randolph</i>	LIFE CLASS COLOR DESIGN AND CRAFTS <i>Rudolph Schaefer</i>
Thursday	Friday	Saturday
LIFE CLASS <i>Lee F. Randolph</i>	LIFE CLASS ILLUSTRATION <i>Ray S. Boynton</i> COLOR DESIGN AND CRAFTS <i>Rudolph Schaefer</i>	LANDSCAPE PAINTING (All day) <i>Gottardo Piazzoni</i>

AFTERNOON SESSIONS: 1 TO 4

Monday	Tuesday	Wednesday
PORTRAIT <i>E. Spencer Macky</i> SCULPTURE <i>Ralph Stackpole</i> STILL LIFE PAINTING <i>Life Class Instructors</i>	PORTRAIT SCULPTURE STILL LIFE PAINTING	PORTRAIT <i>Constance L. Macky</i> <i>E. Spencer Macky</i> STILL LIFE PAINTING SCULPTURE COLOR DESIGN AND CRAFTS <i>Rudolph Schaefer</i> ANATOMY <i>Lee F. Randolph</i>
Thursday	Friday	Saturday
PORTRAIT SCULPTURE <i>Ralph Stackpole</i> SKETCH <i>Gertrude Partington</i> <i>Albright</i> STILL LIFE PAINTING	SKETCH <i>Gertrude Partington</i> <i>Albright</i> SCULPTURE STILL LIFE PAINTING APPLIED (Commercial) ART <i>Harold Von Schmidt</i>	LANDSCAPE PAINTING (All day) <i>Gottardo Piazzoni</i>

Preparatory classes daily both morning and afternoon. The work includes Drawing, Composition, Perspective, and Constructive Anatomy. Students may enter at any time. Composition given in connection with all life classes. See special note on Composition Courses.

Saturday (all day)—Drawing classes for children and adults. *Alice B. Chittenden*.

NIGHT SCHOOL: 7 TO 10

Monday	Wednesday	Friday
DRAWING AND PAINTING FROM LIFE <i>E. Spencer Macky</i> <i>Constance L. Macky</i> SCULPTURE <i>Ralph Stackpole</i> COLOR DESIGN AND CRAFTS <i>Rudolph Schaefer</i>	DRAWING AND PAINTING FROM LIFE <i>E. Spencer Macky</i> SCULPTURE	DRAWING AND PAINTING FROM LIFE <i>E. Spencer Macky</i> <i>Constance L. Macky</i> SCULPTURE APPLIED (Commercial) ART <i>Harold Von Schmidt</i>

Special class for beginners held each evening.

For further information apply at the office of the California School of Fine Arts, corner of California and Mason streets, San Francisco, California. Illustrated catalogue mailed on request.

REGISTER—PART VIII

HASTINGS COLLEGE OF THE LAW

DECEMBER, 1920

HASTINGS COLLEGE OF THE LAW

DIRECTORS

HON. FRANK M. ANGELLOTTI, Chief Justice of the Supreme Court, ex-officio President of the Board	San Francisco
CHARLES W. SLACK, Esq., Vice-President	San Francisco
HON. W. C. VAN FLEET	San Francisco
HON. WARREN OLNEY, Jr.	San Francisco
A. R. BALDWIN, Esq.	San Francisco
WILLIAM B. BOSLEY, Esq.	San Francisco
PERCY EVANS, Esq.	Berkeley
HOYT D. HASTINGS, Esq.	San Francisco
ALEXANDER F. MORRISON, Esq.	San Francisco

FACULTY

DAVID P. BARROWS, Ph.D., LL.D., President of the University.
MAURICE E. HARRISON, A.B., J.D., Professor of Law, Dean.
EDWARD R. TAYLOR, M.D., Emeritus Professor of Law.
ROBERT W. HARRISON, A.B., LL.B., Professor of Law.
JAMES A. BALLENTINE, A.B., Assistant Professor of Law.
RICHARD C. HARRISON, A.B., LL.B., Assistant Professor of Law.
GOLDEN W. BELL, B.L., LL.B., Assistant Professor of Law.
ROBERT L. MCWILLIAMS, B.L., J.D., Assistant Professor of Law.
GEORGE J. MARTIN, Registrar.

CALENDAR

1920

August 9-16—Registration of students. Applications for admission should be made to the Registrar at or before this time.

August 17—Classes begin.

November 25-27—Thanksgiving recess.

Christmas Recess

December 20 to January 1, inclusive.

1921

January 3—Second semester begins.

March 23—Charter Day; holiday.

May 11—Commencement Day.

State legal holidays will be observed.

The office of the Dean is at Hastings College of the Law, City Hall, San Francisco. Telephone Market 3600.

The office of the Registrar is at Room 928 Pacific Building, San Francisco. Telephone Douglas 1536.

HISTORY

Hastings College of the Law was created by Act of the Legislature of California, approved March 26, 1878, which provided for its affiliation with the University of California. The College was endowed by Hon. Seranno Clinton Hastings, the first Chief Justice of the Supreme Court of California, after whom the school is named.

During the early years of the college, Professor John Norton Pomeroy occupied the position of Professor of Municipal Law, and during his incumbency wrote his work on Equity Jurisprudence. Upon the death of Professor Pomeroy in 1885, Hon. Charles W. Slack was appointed to the faculty and from 1894 until 1899 acted as Professor of Municipal Law and Dean of the Faculty. Between the years 1888 and 1894, Hon. E. W. McKinstry, formerly a Justice of the Supreme Court of California, was Professor of Municipal Law. For twenty years beginning with the time of the retirement of Judge Slack from the faculty in 1899, Dr. Edward Robeson Taylor served as Professor of Law and Dean of the College.

LOCATION

The classrooms and quarters of the College are located on the fourth floor of the San Francisco City Hall, in the same building with the courts and the city and county offices, and on the same floor with the San Francisco Law Library, the most extensive law library on the Pacific Coast. The opportunities thus afforded the student in the college are practically unexcelled among city law schools.

PURPOSE

The purpose of the College is to furnish systematic and thorough instruction in those branches of our jurisprudence which will fit the student for the practice of the profession of law. With this end in view, the courses which are given are based primarily on the case-book method, the aim being to develop the analytical powers of the student, and his familiarity with the historical development of the law. Especial attention is given to the codes and statutes of California and the decisions of the California courts.

MOOT COURT

Moot courts, under the direction of members of the faculty, are established as a regular mode of instruction. Participation therein is compulsory upon all students.

LECTURES

In addition to the regular courses, lectures are delivered from time to time by judges and lawyers upon special topics. Among the lectures delivered during the year 1919-1920 were the following:

Hon. John B. Clayberg: "The Genesis and Development of Mining Law in California"; "The Location of a Mining Claim."

Hon. Warren Olney, Jr.: "The Qualifications of a Lawyer."

Hon. Annette A. Adams: "Criminal Procedure in the Federal Courts."

Hon. Rolla B. Watt: "Justices' Court Procedure in California."

A course of lectures upon the use of law books was also delivered by Jacob Goldberg, Esq., of the San Francisco bar.

LIBRARY FACILITIES

In addition to our own library, students are permitted to use the Bar Association Library (during office hours) and the San Francisco Law Library. The San Francisco Law Library is on the same floor in the City Hall as that of this College. It contains more than 46,000 volumes.

PRIVILEGES ON GRADUATION

Students who complete the prescribed courses receive the degree of Bachelor of Laws from the University of California.

FEEES

Tuition is free, but a fee of \$20 a year is charged to cover incidental expenses.

SCHOLARSHIPS

The Sheffield Sanborn Scholarships for the year 1920-1921 were awarded to James Edward McClelland and Sara Vida Ross of the class of 1922.

PRIZE

The Bancroft-Whitney prize, offered for the student of the first-year class having the highest scholarship record, was awarded for the year 1919-1920 to James Edward McClellan.

REQUIREMENTS FOR ADMISSION

Every applicant for admission to the College must be shown to be of good moral character and must either (1) be a graduate of the University of California or hold an academic degree from some other approved university; or (2) must have attained junior standing (64 units) in an Academic College of the University of California, after two years' residence, or must have satisfactorily performed equivalent work at some other university or college.

Credit will be given for work done at other law schools; but such credit will not be given unless the law school at which the work has been done is a member of the Association of American Law Schools, nor unless the student has completed the amount of preparation required for admission into the College.

Members of the bar may, in the discretion of the Dean, be admitted as special students.

Further information may be obtained from the Dean or the Registrar.

FIRST YEAR

Property I.

M. E. HARRISON

Warren's Cases on Property; Bigelow's Cases on Rights in Land.
Three hours a week throughout the year. Tu F S, 9-10.

Contracts.

BELL

Williston's Cases on Contracts.
Three hours a week throughout the year. M W F, 8-9.

Torts.

BALLENTINE

Pound's Cases on Torts.
Two hours a week throughout the year. Tu S, 8-9.

Common-Law Pleading.

R. C. HARRISON

Cook and Hinton's Cases on Pleading at Common Law, Part I and
assigned cases.
Two hours a week throughout the year. M W, 9-10.

Criminal Law.

BALLENTINE

Mikell's Cases on Criminal Law.
Two hours a week, first semester. Th, 8-10.

Agency.

BALLENTINE

Reinhard's Cases on Agency.
Two hours a week, second semester. Th, 8-10.

Reading Required of First-Year Students

First-year students are required to read the following:

Wambaugh: Study of Cases, Book I.

Pollock: A First Book in English Jurisprudence.

Maitland and Montague: A Sketch of English Legal History.

Jenks: A Short History of English Law.

Street: Foundations of Legal Liability.

Green: Centralization of Norman Justice Under Henry II. Select
Essays in Anglo-American Legal History, vol. I, pp. 111-139.

Jenks: Edward I, the English Justinian. Select Essays, vol. I, pp.
139-168.

Holdsworth: Influence of Coke on the Development of English Law.
Essays in Legal History, edited by Vinogradoff, pp. 297-312.

SECOND YEAR**Equity.****M. E. HARRISON**

Ames' Cases in Equity Jurisdiction.

Two hours a week throughout the year. M W, 9-10.

Corporations.**R. C. HARRISON**

Canfield and Wormser's Cases on Private Corporations.

Three hours a week throughout the year. M W F, 8-9.

Sales of Personal Property.**R. W. HARRISON**

Woodward's Cases on Sales.

Two hours a week throughout the year. Tu, 8:30-9:30; F, 9-10.

Negotiable Instruments.**R. W. HARRISON**

Smith and Moore's Cases on Bills and Notes.

Two hours a week throughout the year. Th, 8:30-9:30; S, 9-10.

Property II.**M. E. HARRISON**

Aigler's Cases on Titles; Costigan's Cases on Wills and assigned cases.

Three hours a week throughout the year. Tu Th F, 10-11.

Reading Required of Second-Year Students

Second-year students are required to read the following:

Holmes: The Common Law.

Maitland: Equity.

Zane: The Five Ages of the Bench and Bar in England. Select Essays in Anglo-American Legal History, vol. I, pp. 625-730.

Veeder: A Century of English Judicature. Select Essays, vol. I, pp. 730-836.

THIRD YEAR**Constitutional Law.****BALLENTINE**

Wambaugh's Cases on Constitutional Law.

Two hours a week throughout the year. Tu F, 9-10.

Evidence.**R. W. HARRISON**

Hinton's Cases on Evidence.

Two hours a week throughout the year. M W, 8:30-9:30.

Pleading and Practice.**M. E. HARRISON**

Assigned Cases.

Two hours a week throughout the year. M, 10-11; Th, 9-10.

Suretyship.

B. C. HARRISON

Ames' Cases on Suretyship.

Two hours a week first semester. Will not be given, 1920-1921.

Mortgages.

B. C. HARRISON

Case book to be announced.

Two hours a week, second semester. Tu Th, 8-9.

Public Service Companies.

Case book to be announced.

Two hours a week, first semester.

Trusts.

McWILLIAMS

Scott's Cases on Trusts.

Two hours a week, second semester. S, 10-12.

Admiralty.

BELL

Assigned cases.

One hour a week throughout the year. F, 9-10.

Note.—During the year 1920-1921 third-year students will take the first semester of the second-year course in Property II.

Third-year students will also be required to participate in a Legal Clinic, to be maintained in coöperation with the San Francisco Legal Aid Society.

STUDENTS, 1919-20

NOTE.—Abbreviations: S F, San Francisco; O, Oakland; B, Berkeley; P, Piedmont.

THIRD YEAR

Bennett, Eugene Dunlap	Santa Cruz	Leve, Frederick Philip	Oakland
LL.B. (Cumberland University)		B.S. 1917	
624 Mills bldg, S F		1220 Fruitvale av, O	
Bourquin, Marion Mitchell	Butte, Mont.	Magoon, Eaton Harry	Honolulu, T. H.
534 Steiner st, S F		1106 Bush st, S F	
Collins, Simon Miller	Berkeley	May, Douglas	Angels Camp
916 Fresno av, B		2401 Durant av, B	
Eickhoff, Henry, Jr.	San Francisco	O'Neill, Frank Thomas	San Francisco
A.B. (Stanford University) 1919		541 Tenth av, S F	
1650 Lake st, S F		Roan, Everett Hale	Pasadena
Giannini, Lawrence Mario	San Mateo	974 Pine st, S F	
Olympic Club, S F		Salinger, Herbert H.	Piedmont
Hoge, John Hampton	San Francisco	1504 Oakland av, P	
114 Sansome st, S F		Sheehan, William Wallace	San Francisco
Jimenez, Roberto Antonio	Alameda	1227 Tenth av, S F	
Consulate of Panama, S F		Woodworth, Fremont Erwin	San Francisco
		1316 Mariposa st, S F	

SECOND YEAR

Benavides, Ildefonso Budol	San Francisco	Harrison, Gregory Alexander	San Francisco
Mangatarem, P. I.		A.B. 1917	
A.B. (University de Rizal)		3329 Washington st, S F	
635 Montgomery st, S F		Hotaling, George Henry	San Francisco
Daney, Florence Rines	Oakland	A.B. 1917	
1120 Sixty-ninth av, O		1904 Franklin st, S F	
Dozier, Erwin Y.	San Francisco	Kronenberg, James Frederick	Sausalito
1103 First National Bank bldg, S F		A.B. 1919	
Greennan, John Aloysius, Jr.	Berkeley	R. D. No. 1, Box 38, Sausalito	
1714 Walnut st, B		Myers, Alma Maria	Berkeley
		109 Hillcrest rd, B	

FIRST YEAR

Bruna, Walter Emil	Oakland	Levy, Robert Leonard	San Francisco
5916 Elsie av, O		2946 California st, S F	
Caffaro, Rudolph Martin	Sacramento	Logan, Easter	Laie, Oahu, T. H.
A.B. (St. Mary's College) 1919		A.B. (Waseda University) 1915	
2507 M st, Sacramento		1554 Post st, S F	
Carpenter, Challis M.	Prescott, Ariz.	Manson, Stewart Gaylord	San Francisco
534 Steiner st, S F		809 Kohl bldg, S F	
Cavagnaro, James Finley	Oakland	McClellan, James Edward	Brawley
400 Lagunitas av, O		1190 Eddy st, S F	
Crocker, Henry Joseph	San Francisco	Murphy, Joseph A.	Chico
A.B. (Yale University) 1916		534 Steiner st, S F	
2301 Laguna st, S F		O'Leary, Francis	San Francisco
Debenedetti, Henry Eugene	Halfmoon Bay	55 Alvarado st, S F	
Halfmoon Bay		Pierovich, Andrew Lawrence	Jackson
Ferguson, Donald Kelly	San Diego	A.B. (St. Mary's College) 1917	
Larne Hotel, S F		812 York st, S F	
Fisher, Charles Wilson	Oakland	Ross, Sarah Vida	Berkeley
431 Orange st, O		A.B. 1906; M.A. 1908	
Hagerty, James Leo	Oakland	2700 California st, B	
A.B. (St. Mary's College) 1919		Shortridge, Samuel M., Jr.	Menlo Park
3469 Piedmont av, O		1051 Taylor st, S F	
Hawkins, Leland Stanford	Washington, D.C.	Stewart, Fred R.	Berkeley
2014 Fillmore st, S F		57 Post st, S F	
Herz, James Isie	San Francisco	Ti-Chieng, Lee	Foochow City, China
471 Twelfth av, S F		665 Hayes st, S F	
Hubbard, Henry Ross	San Francisco	Williams, Higbee	San Francisco
B.S. (University of Missouri) 1917		652 Fell st, S F	
619 Larkin st, S F			

SPECIAL STUDENTS

Ayres, Manvil Hector	San Juan Bautista	Michieli, Josephine Debenedetti	San Francisco
1016 Jackson st, O		110 Twenty-ninth st, S F	
Catania, Clifton Joseph	San Francisco	Nolan, Webster Kenneth	San Francisco
3415 Twenty-first st, S F		2524 Washington st, S F	
Floyd, Leslie Kennedy	Modesto	Peters, George Yates	Berkeley
835 Octavia st, S F		18 Hillside ct, B	
Foote, Harold Samuel	San Mateo	St. Clair, Winfred James	San Francisco
San Mateo		144 Eddy st, S F	
Forsyth, Alfred A.	San Francisco	Starkweather, Rufus P.	Oakland
1146 Mission st, S F		1007 Claus Spreckels bldg, S F	
Grant, Albert Anderson	San Francisco	Stiver, Mark Carlton	San Francisco
653 Sacramento st, S F		21A Baker st, S F	
Hammack, Harold Merle	Finley	Ward, George Albert	San Francisco
335 First st, Richmond		580 McAllister st, S F	
Michieli, John Paul	San Francisco		
Ph.C.			
3276 Mission st, S F			

REGISTER—PART IX

**UNIVERSITY OF CALIFORNIA
MEDICAL SCHOOL**

BERKELEY—SAN FRANCISCO

OCTOBER, 1920

UNIVERSITY OF CALIFORNIA

MEDICAL SCHOOL

ANNOUNCEMENT FOR 1920-1921

**UNIVERSITY OF CALIFORNIA MEDICAL SCHOOL
PARNASSUS AND THIRD AVENUES
SAN FRANCISCO**

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CALENDAR

1920

- May 1—Applications for admission to the Medical School, with credentials, must be on file at the Secretary's office.
- August 5 (Thursday)—10 (Tuesday)—Entrance examinations at Berkeley for freshman standing (pre-medical) in the College of Letters and Science. Applicants will be required to obtain permits to enter the examination room. Examination permits will be issued by the Recorder of the Faculties on or before August 4 (Wednesday). But applications for permits to be sent by mail should be made as far in advance of August 4 (Wednesday) as will enable applicants to receive their permits by that date. The office of the Recorder of the Faculties is in California Hall, Berkeley.
- August 9 (Monday)—Examinations begin for applicants for advanced standing and for students previously conditioned.
- August 13 (Friday)—August 14 (Saturday)—Registration of students of the Third and Fourth year classes at the Students' Registration Office, University Hospital, San Francisco. *Payment of the first instalment of the tuition fee is required on or before this date.*
- August 16 (Monday)—Registration of students of the First and Second year classes at the Students' Registration Office, University Hospital, San Francisco. *Payment of the first instalment of the tuition fee is required on or before this date.*
- August 17 (Tuesday)—Instruction begins.
- September 6 (Monday)—Labor Day; a holiday.
- September 9 (Thursday)—Admission Day; a holiday.
- November 25 (Thursday)—November 27 (Saturday)—THANKSGIVING RECESS.
- December 13 (Monday)—Examinations begin.
- December 20, 1920 (Monday)—January 8, 1921 (Saturday)—CHRISTMAS RECESS.

1921

- January 7 (Friday)—January 8 (Saturday)—Registration of students of the Second, Third and Fourth year classes at the Students' Registration Office, University Hospital, San Francisco. *Payment of the second instalment of the tuition fee is required on or before this date.*
- January 10 (Monday)—Registration of students of the First year class at Students' Registration Office, University Hospital, San Francisco. *Payment of the second instalment of the tuition fee is required on or before this date.*
- January 11 (Tuesday)—Instruction begins.
- February 22 (Tuesday)—Washington's Birthday; a holiday.
- March 1 (Tuesday)—Last day for receiving applications for scholarships.
- March 23 (Wednesday)—Charter Day; a holiday.
- May 2 (Monday)—Examinations begin.
- May 11 (Wednesday)—The Fifty-eighth Commencement.

ORGANIZATION AND HISTORY

REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

REGENTS EX OFFICIO

HIS EXCELLENCY WILLIAM D. STEPHENS
Governor of California and President of
the Regents
Sacramento

GEORGE C. ROEDING
President of the State Agricultural
Society
Roeding Place, Fresno

CLEMENT CALHOUN YOUNG, B.L.
Lieutenant-Governor of California
Sacramento (276 Post st, San Francisco)

BYRON MAUZY
President of the Mechanics' Institute
250 Stockton st, San Francisco

HENRY W. WRIGHT
Speaker of the Assembly
1009 Fair Oaks av, South Pasadena

WARREN GREGORY, A.B., LL.B.
President of the Alumni Association
Merchants Exchange bldg, San Francisco

WILL C. WOOD
State Superintendent of Public Instruc-
tion
Sacramento

DAVID PRESCOTT BARROWS, Ph.D., LL.D.
President of the University
217 California Hall, Berkeley

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the Board.

ARTHUR WILLIAM FOSTER, (1932)
Southern Pacific bldg, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)
First National Bank, San Francisco

GARRETT WILLIAM McENERNEY (1936)
2002 Hobart bldg, San Francisco

**CHARLES ADOLPH RAMM, B.S., M.A.,
S.T.B. (1928)**
1100 Franklin st, San Francisco

RUDOLPH JULIUS TAUSSIG (1932)
1521 Van Ness av, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)
637 Wilton pl, Los Angeles

GUY CHAFFEE EARL, A.B. (1934)
14 Sansome st, San Francisco

JAMES MILLS (1926)
Hamilton City

JOHN ALEXANDER BRITTON (1930)
445 Sutter st, San Francisco

CHESTER HARVEY ROWELL, Ph.B. (1936)
Fresno

CHARLES STETSON WHEELER, B.L. (1928)
Nevada Bank bldg, San Francisco

MORTIMER FLEISHHACKER (1934)
Anglo-California Trust Company, San
Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)
Crocker National Bank, San Francisco

GEORGE I. COCHRAN, LL.D. (1930)
501 West Sixth st, Los Angeles

PHILIP ERNEST BOWLES, Ph.B. (1922)
American National Bank, San Francisco

Mrs. MARGARET SANTORI (1922)
725 West Twenty-eighth st, Los Angeles

OFFICERS OF THE REGENTS

His Excellency William Dennison Stephens
President
Sacramento

Comptroller, Secretary of Regents, and
Land Agent
220 California Hall, Berkeley

Robert Gordon Sproul, B.S.
Assistant Comptroller, Assistant Sec-
retary, and Assistant Land Agent
220 California Hall, Berkeley

Mortimer Fleishhacker,
Treasurer
Anglo-California Trust Company, San
Francisco

James M. Mannon, Jr., LL.B.
Attorney
1107 Merchants Exchange bldg, San
Francisco

STANDING COMMITTEES OF THE BOARD OF REGENTS
FOR THE YEAR 1920-21*Agriculture:*

Regents Foster, Roeding, Dickson, Mills,
Cochran, and Taussig.

Committee on Conference with Faculty:

Regents Moffitt, Gregory, Britton,
Taussig, Rowell, and Ramm.

Endowments:

Regents Crocker, Britton, Mrs. Sar-
tori, Bowles, Cochran, McEnerney,
and Fleishhacker.

Engineering:

Regents Ramm, Fleishhacker, Britton,
Roeding, and Bowles.

Executive Committee:

This committee consists of the chairmen
of all standing committees and the
President of the Alumni Association.

Finance:

Regents Earl, Foster, Britton, Moffitt,
and Taussig.

Grounds and Buildings:

Regents Britton, Wheeler, Bowles,
Dickson, and Fleishhacker.

Jurisprudence:

Regents McEnerney, Cochran, Wheeler,
Gregory, and Young.

Letters and Science:

Regents Rowell, Wheeler, Ramm, Wood,
Gregory, and Mills.

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Regents Bowles, Moffitt, Mausy, Gregory,
Wood, Earl, and Rowell.

Lick Observatory:

Regents Fleishhacker, McEnerney,
Young, Crocker, Mausy, and Wright.

*Medical Instruction and University**Hospitals:*

Regents Crocker, Taussig, Britton,
Earl, Moffitt, Ramm, Mrs. Sartori,
and Bowles.

*Southern Branch of the University of
California and Scripps Institution for
Biological Research:*

Regents Dickson, Cochran, Gregory,
Mrs. Sartori, Wood, Rowell, and
Taussig.

Wilmerding School:

Regents Taussig, Earl, Moffitt, and
Mausy.

THE GEORGE WILLIAMS HOOPER FOUNDATION FOR
MEDICAL RESEARCH

ADVISORY BOARD

DAVID PRESCOTT BARROWS, President of the University.

BENJAMIN IDE WHEELER, President Emeritus of the University.

E. D. CONNOLLY, San Francisco.

A. W. FOSTER, Regent of the University.

HERBERT C. MOFFITT, Professor of Medicine.

HENRY S. PRITCHETT, President of the Carnegie Foundation.

WILLIAM H. WELCH, Professor of Pathology, Johns Hopkins Medical School.

GEORGE H. WHIPPLE, Director of the Research Laboratory.

*The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

FACULTY AND TEACHING STAFF*

OF THE

UNIVERSITY OF CALIFORNIA MEDICAL SCHOOL, 1920-21

PRESIDENT EMERITUS

BENJAMIN I. WHEELER, Ph.D., LL.D., Litt.D., 126 Library Bldg., Berkeley.

PRESIDENT OF THE UNIVERSITY

DAVID PRESCOTT BARROWS, Ph.D., LL.D.,
California Hall, University of California, Berkeley.

PROFESSORS EMERITI

THOMAS W. HUNTINGTON, A.B., M.D., *Professor of Clinical Surgery, Emeritus*,
516 Sutter Street, San Francisco.

WILLIAM B. LEWITT, M.D., *Professor of Pediatrics, Emeritus*,
210 Post Street, San Francisco.

PROFESSORS

HERBERT C. MOFFITT, B.S., M.D., LL.D., *Professor of Medicine*,
240 Stockton Street, San Francisco.

FREDERICK P. GAY, A.B., M.D., *Professor of Pathology*,
Department of Bacteriology and Pathology, University of California,
Berkeley.

WALLACE I. TERRY, B.S., M.D., *Professor of Surgery*,
240 Stockton Street, San Francisco.

WILLIAM PALMER LUCAS, A.B., M.D., *Professor of Pediatrics*,
University of California Hospital, San Francisco.

GEORGE HOYT WHIPPLE, A.B., M.D., *Professor of Research Medicine*,
Hooper Foundation, San Francisco.

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Mrs. I. N. WALTER

The Dean and Secretary are ex officio members of all standing committees.

UNIVERSITY HOSPITAL MEDICAL STAFF

WILLIAM E. MUSGRAVE, M.D.,
W. C. RAPPLEYE, M.D.,
HERBERT C. MOFFITT, M.D.,
WALLACE I. TERRY, M.D.,
WILLIAM P. LUCAS, M.D.,
FRANK W. LYNCH, M.D.,

MILTON B. LENNON, M.D.,
HOWARD MORROW, M.D.,
WALTER I. BALDWIN, M.D.,

Director
Assistant Director
Physician-in-Chief.
Surgeon-in-Chief.
Pediatrician-in-Chief.
Obstetrician and Gynecologist-
in-Chief.
Neurologist.
Dermatologist.
Orthopedic Surgeon.

WALTER S. FRANKLIN, M.D.,
 ALBERT J. HOUSTON, M.D.,
 FRANK HINMAN, M.D.,
 HOWARD E. RUGGLES, M.D.,
 MARY E. BOTSFORD, M.D.,
 WILLIAM J. KERR, M.D.,
 SAXTON T. POPE, M.D.,
 HOWARD C. NAFFZIGER, M.D.,
 SOL HYMAN, M.D.,
 EDWIN I. BARTLETT, M.D.,
 GEORGE D. LYMAN, M.D.,
 WILLIAM E. CARTER, M.D.,
 ALICE F. MAXWELL, M.D.,

— — — — —
 R. L. RICHARDS, M.D.,
 OLGA L. BRIDGMAN, M.D.,
 EVA C. REID, M.D.,
 HIRAM E. MILLER, M.D.,
 LAURENCE TAUSSIG, M.D.,

HOWARD H. MARKEL, M.D.,
 E. F. GLASER, M.D.,
 F. C. CORDES, M.D.,
 ABEL W. JOHNSON, M.D.,
 F. C. LEWITT, M.D.,
 J. H. MCCLELLAND, M.D.,
 W. B. SMITH, M.D.,
 LIONEL P. PLAYER, M.D.,
 C. P. L. MATHE, M.D.,
 J. M. MACDONALD, M.D.,
 EDITH BRONSON, M.D.,
 L. J. SCHERMERHORN, M.D.,
 MARGARET SCHULZE, M.D.,
 LLOYD BRYAN, M.D.,
 ELIZABETH SCHULZE, M.D.,
 C. O. TUFTS,
 MARY KAVANAGH, M.D.,
 EMMA BUCKLEY, M.D.,

Ophthalmologist.
 Otorhinolaryngologist.
 Urologist.
 Roentgenologist.
 Anaesthetist.
 Visiting Physician.
 Visiting Surgeon.
 Visiting Neurosurgeon.
 Visiting Surgeon.
 Visiting Surgeon.
 Visiting Pediatrician.
 Visiting Pediatrician.
 Visiting Gynecologist.
 Chief of Clinical Laboratories.
 Psychiatrist.
 Psychologist.
 Assistant Psychiatrist.
 Assistant Dermatologist.
 Assistant Dermatologist, in charge
 of Radium Emanation Plant.
 Assistant Orthopedic Surgeon.
 Assistant Ophthalmologist.
 Assistant Ophthalmologist.
 Assistant Otorhinolaryngologist.
 Assistant Otorhinolaryngologist.
 Assistant Otorhinolaryngologist.
 Assistant Otorhinolaryngologist.
 Assistant Urologist.
 Assistant Urologist.
 Assistant Urologist.
 Assistant Visiting Pediatrician.
 Assistant Visiting Pediatrician.
 Assistant Visiting Gynecologist.
 Assistant Roentgenologist.
 Assistant Roentgenologist.
 Dental Roentgenologist.
 Assistant Anaesthetist.
 Assistant Anaesthetist.

INFIRMARY

RACHELL ASH, M.D.,
 INA RICHTER, M.D.,

Physician in charge.
 Assistant Physician.

RESIDENT HOUSE STAFF (UNIVERSITY HOSPITAL)

_____	Resident Physician.
_____	Assistant Resident Physician.
_____	Assistant Resident Physician.
_____	Assistant Resident Physician.
_____	Assistant Resident Physician.
HENRY H. SEARLES, M.D.,	Resident Surgeon.
MYRON M. BOOTH, M.D.,	Assistant Resident Surgeon.
_____	Assistant Resident Surgeon.
_____	Assistant Resident Surgeon.
ROBERT C. MARTIN, M.D.,	Assistant Resident Otorhinolaryn-
	gology.
BRADFORD F. DEARING, M.D.,	Resident Pediatrician.
_____	Assistant Resident Pediatrician.
ALSON A. SHUFELT, M.D.,	Resident in Women's Clinic.
PHILIP H. ARNOT, M.D.,	Assistant Resident in Woman's
	Clinic.
_____	Resident Pathologist.
_____	Assistant Resident Pathologist.

Interns

D. R. BALL	D. E. JEFFRY
C. C. BERWICK	C. F. KEITH
M. H. CHILDRESS	J. J. KINGSTON
Z. B. COBLENTZ	R. G. SCRIBNER
J. C. DEMENT, Jr.	F. P. SHAFER
W. A. GREGORY	J. R. SHARPSTEIN
H. R. HOOBLER	E. B. SHAW
H. S. HOYT	C. V. THOMPSON
G. S. IKI	MAX PECK (Dental Extern.)

OUT-PATIENT DEPARTMENT

HERBERT C. MOFFITT, M.D.,	Physician-in-Chief.
WALLACE I. TERRY, M.D.,	Surgeon-in-Chief.
WILLIAM P. LUCAS, M.D.,	Pediatrician-in-Chief.
FRANK W. LYNCH, M.D.,	Chief of Woman's Clinic.
Mrs. EMILY REED,	Record Clerk.

MEDICINE

ERNEST H. FALCONER, M.D., Chief of Medical Clinics.

General Medicine

ERNEST H. FALCONER, M.D.,	Chief.
FREDERICK H. KRUSE, M.D.,	Visiting Physician.
WILLIAM C. FREY, M.D.,	Assistant Visiting Physician.
C. A. ABRAMOPOULOS, M.D.,	Assistant Visiting Physician.
J. G. HARRINGTON, M.D.,	Assistant Visiting Physician.
JOSEPH A. POLLIA, M.D.,	Assistant Visiting Physician.

Chest Clinic

L. S. MACE, M.D., Chief.

Gastro-Intestinal Clinic

ELBRIDGE J. BEST, M.D., Chief.

Cardiovascular Clinic

HERBERT W. ALLEN, M.D.,	Chief.
JULES B. FRANKENHEIMER, M.D.,	Visiting Physician.

Metabolism Clinic

LOVELL LANGSTROTH, M.D.,	Chief.
ERNEST S. DUBRAY, M.D.,	Assistant Visiting Physician.

Endocrine Gland Clinic

HANS LISSER, M.D., Chief.

NEUROPSYCHIATRY

MILTON B. LENNON, M.D., Chief of Neuropsychiatry Clinics.

Neurology

MILTON B. LENNON, M.D.,	Chief.
RICHARD W. HARVEY, M.D.,	Visiting Neurologist.

Psychiatry

EVA C. REID, M.D.,	Chief.
ROBERT L. RICHARDS, M.D.,	Visiting Psychiatrist.

Psychology

OLGA BRIDGMAN, M.D.,	Chief.
JEAN WALKER,	Assistant.

Speech Defect Clinic

MABEL F. GIFFORD,	In Charge.
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DERMATOLOGY

HOWARD MORROW, M.D.,	Chief.
BERTRAM STONE, M.D.,	Assistant Dermatologist.
HIRAM E. MILLER, M.D.,	Assistant Dermatologist.
LAURENCE TAUSSIG, M.D.,	Assistant Dermatologist.

GENERAL SURGERY

ALANSON S. KILGORE, M.D.,	Chief.
MONTAGUE S. WOOLF, M.D.,	Visiting Surgeon.
ANTHONY B. DIEPENBROCK, M.D.,	Assistant Visiting Surgeon.
ROBERT S. SHERMAN, M.D.,	Assistant Visiting Surgeon.

ORTHOPEDIC SURGERY

HOWARD H. MARKEL, M.D.,	Chief.
ARTHUR L. FISHER, M.D.,	Assistant Orthopedic Surgeon.
GEORGE J. MCCHESENEY, M.D.,	Assistant Orthopedic Surgeon.
EDWARD C. BULL, M.D.,	Assistant Orthopedic Surgeon.
THOMAS R. BARNEY, M.D.,	Assistant Orthopedic Surgeon.
RINALDO P. GIOVANETTI, M.D.,	Assistant Orthopedic Surgeon.
LIONEL D. PRINCE, M.D.,	Assistant Orthopedic Surgeon.

OPHTHALMOLOGY

WALTER S. FRANKLIN, M.D.	Chief.
EDWARD F. GLASER, M.D.,	Assistant Ophthalmologist.
FREDERICK C. CORDES, M.D.,	Assistant Ophthalmologist.

LARYNGOLOGY, OTOTOLOGY AND RHINOLOGY

ALBERT J. HOUSTON, M.D.,	Chief.
FREDERICK C. LEWITT, M.D.,	Assistant Otorhinolaryngologist.
WALLACE B. SMITH, M.D.,	Assistant Otorhinolaryngologist.
F. S. BAXTER, M.D.,	Assistant Otorhinolaryngologist.
FRED W. LORING, M.D.,	Assistant Otorhinolaryngologist.

UROLOGY

FRANK HINMAN, M.D.,	Chief.
LIONEL P. PLAYER, M.D.,	Assistant Urologist.
C. P. L. MATHE, M.D.,	Assistant Urologist.
JOHN M. MACDONALD, M.D.,	Assistant Urologist.
HARRY PARTRIDGE, M.D.,	Assistant Urologist.
SIDNEY OLSEN, M.D.,	Assistant Urologist.
H. A. R. KREUTZMANN, M.D.,	Assistant Urologist.

PEDIATRICS

W. P. LUCAS, M.D.,	Chief of Clinics.
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General Pediatrics

WILLIAM E. CARTER, M.D.,	Chief.
ALFRED E. MEYERS, M.D.,	Visiting Pediatrician.
EDITH BRONSON, M.D.,	Assistant Visiting Pediatrician.
ENOS P. COOK, M.D.,	Assistant Visiting Pediatrician.
H. R. GREEN, M.D.,	Assistant Visiting Pediatrician.
FRIEDA L. KRUSE, M.D.,	Assistant Visiting Pediatrician.
L. J. SCHERMERHORN, M.D.,	Assistant Visiting Pediatrician.
MENDEL LEE COHN, M.D.,	Assistant Visiting Pediatrician.

Psychology Clinic for Children

OLGA BRIDGMAN, M.D.,	Chief.
Miss JEAN WALKER,	Assistant Psychologist.
MABEL F. GIFFORD,	In charge of Speech Defect Clinic.

Note: The psychology clinic and speech defect clinic for children are operated in connection with the clinics in neuropsychiatry and by the same staff.

Juvenile Court (Affiliated)

OLGA BRIDGMAN, M.D.,	Chief.
BRADFORD F. DEARING, M.D.,	Visiting Pediatrician.

S. F. Nursery for Homeless Children (Affiliated)

CLAIN F. GELSTON, M.D.,	Physician in charge.
L. J. SCHERMERHORN, M.D.,	Assistant Visiting Physician.

Protestant Orphan Asylum (Affiliated)

CLAIN F. GELSTON, M.D.,	Physician in charge.
L. J. SCHERMERHORN, M.D.,	Assistant Visiting Physician.

Associated Charities Clinics (Affiliated)

FLORENCE M. HOLSCRAW, M.D.,	Chief.
EDITH BRONSON, M.D.,	Assistant Visiting Physician.

Bothin Convalescent Home (Affiliated)

W. P. LUCAS, M.D.,	Chief.
B. F. DEARING, M.D.,	Visiting Pediatrician.
MARY HARRIS, M.D.,	Visiting Pediatrician.

Sunshine Preventorium (Affiliated)

W. P. LUCAS, M.D.,	Chief.
MARY HARRIS, M.D.,	Visiting Pediatrician.
BRADFORD F. DEARING, M.D.,	Visiting Pediatrician.

Telegraph Hill Settlement Clinic (Affiliated)

FLORENCE H. HOLSCRAW, M.D.,	Chief.
EDITH BRONSON, M.D.,	Visiting Physician.

WOMAN'S CLINIC

FRANK W. LYNCH, M.D.,	Chief.
ALICE F. MAXWELL, M.D.,	Visiting Obstetrician and Gynecologist.
MARGARET SCHULZE, M.D.,	Assistant Visiting Obstetrician and Gynecologist.
ALSON A. SHUFELT, M.D.,	Assistant Visiting Obstetrician and Gynecologist.
PHILIP H. ARNOT, M.D.,	Assistant Visiting Obstetrician and Gynecologist.

ROENTGENOLOGY**H. E. RUGGLES, M.D.,****Chief of Clinic.****L. BRYANT, M.D.,****Assistant Roentgenologist.****SOCIAL SERVICE DEPARTMENT****LOUISE MORROW, M.D.,****Director of Social Service and
Nursing.****EDITH S. BRYAN,****Director of Public Health Nursing.****FLORENCE BODDY,****Field Supervisor and Instructor of
Public Health Nursing.****HELEN BLOODGOOD,****Field Supervisor and Instructor of
Public Health Nursing.****MAUD MORRISON,****Supervisor and Instructor of
Public Health Nursing.****FREDA WHYTE,****Supervisor and Instructor of
Public Health Nursing.****ROSE STEINHART,****Hospital and Clinic Social Service
Worker.****MARGARETHA SIERMONDT,****Supervisor and Instructor of
Public Health Nursing.****MARY JOHNSON,****Supervisor and Instructor of
Public Health Nursing.****ROSA MILITAR,****Supervisor and Instructor of
Public Health Nursing.****—————,****Supervisor and Instructor of
Public Health Nursing.****SAN FRANCISCO HOSPITAL MEDICAL STAFF****G. E. EBRIGHT, M.D.,****Visiting Physician.****HAROLD BRUNN, M.D.,****Visiting Surgeon.****A. E. MEYERS, M.D.,****Visiting Pediatrician.****W. G. MOORE, M.D.,****Visiting Gynecologist.****L. I. BREITSTEIN, M.D.,****Visiting Obstetrician.****M. B. LENNON, M.D.,****Visiting Neuropsychiatrist.****H. MORROW, M.D.,****Visiting Dermatologist.****E. C. BULL, M.D.,****Visiting Orthopedic Surgeon.****W. F. BLAKE, M.D.,****Visiting Ophthalmologist.****—————,****Visiting Otorhinolaryngologist.****W. P. WILLARD, M.D.,****Visiting Urologist.**

G. Y. RUSK, M.D.,
HENLEY E. MILLER, D.D.S.,
L. H. BRIGGS, M.D.,
S. A. HILL, M.D.,
E. TWITCHELL, M.D.,
H. I. WEIL, M.D.,
ESTHER ROSENCRANTZ, M.D.,

H. S. THOMSON, M.D.,
L. A. DRAPER, M.D.,
G. K. RHODES, M.D.,
L. J. SCHERMERHORN, M.D.,
MARGARET SCHULZE, M.D.,
ARMSTRONG TAYLOR, M.D.,
R. W. HARVEY, M.D.,

V. H. PODSTAT, M.D.,

B. STONE, M.D.,
H. E. MILLER, M.D.,
R. P. GIOVANETTI, M.D.,

_____,
H. J. COHN, M.D.,

A. K. HUTCHINGS, M.D.,

C. P. L. MATHE, M.D.,
H. A. R. KREUTZMAN, M.D.,

_____,
F. B. ROSSEN, M.D.,

Visiting Pathologist.
Visiting Dental Surgeon.
Assistant Visiting Physician.
Assistant Visiting Physician.
Assistant Visiting Physician.
Assistant Visiting Physician.
Assistant Visiting Physician (In
charge of Tuberculosis Wards).
Assistant Visiting Surgeon.
Assistant Visiting Surgeon.
Assistant Visiting Surgeon.
Assistant Visiting Pediatrician.
Assistant Visiting Gynecologist.
Assistant Visiting Obstetrician.
Assistant Visiting Neuropsychi-
atrist.
Assistant Visiting Neuropsychi-
atrist.
Assistant Visiting Dermatologist.
Assistant Visiting Dermatologist.
Assistant Visiting Orthopedic
Surgeon.
Assistant Visiting Ophthal-
mologist.
Assistant Visiting Otorhinolaryn-
gologist.
Assistant Visiting Otorhinolaryn-
gologist.
Assistant Visiting Urologist.
Assistant Visiting Urologist.
Assistant Visiting Urologist.
Assistant Visiting Pathologist.

RESIDENT HOUSE STAFF (SAN FRANCISCO HOSPITAL)

JOHN P. PARDOE, M.D.,
EDMUND W. SIMMONS, M.D.,
CHARLES B. FOWLER, M.D.,
OSCAR K. MOHS, M.D.,
MERVYN F. FRANDY, M.D.,

House Officer in Medicine.
House Officer in Medicine.
House Officer in Surgery.
House Officer in Surgery.
House Officer in Obstetrics and
Gynecology.
House Officer in Pediatrics and
Isolation Ward.

Interns

W. H. BINGAMAN	F. J. IJAMS, M.D.
ROY M. BYRAM, M.D.	E. A. LARSON, M.D.
LEO W. CHAIN, M.D.	JOHN C. PARSONS, M.D.
PAUL R. FARRINGTON, M.D.	M. H. SILBERBERG
OLIN H. GARRISON, M.D.	AMY C. STEVENS, M.D.
FOUAD H. HANNA, M.D.	H. I. VAN HORNE
F. I. HARRIS	BEN F. WOLVERTON, M.D.

HAHNEMANN HOSPITAL MEDICAL STAFF

E. W. CLEARY, M.D.,	Executive Chairman.
EDGAR L. GILCREEST, M.D.,	Resident.
E. W. CLEARY, M.D.,	Industrial Physician and Surgeon.
JAMES L. WHITNEY, M.D.,	Visiting Physician.
ERNEST H. FALCONER, M.D.,	Visiting Physician.
HAROLD W. WRIGHT, M.D.,	Psychiatrist.
HIRAM E. MILLER, M.D.,	Dermatologist.
C. L. HOAG, M.D.,	Visiting Surgeon.
EDWIN I. BARTLETT, M.D.,	Visiting Surgeon.
HOWARD H. MARKEL, M.D.,	Orthopedic Surgeon.
GEORGE J. MCCHESENEY, M.D.,	Assistant Orthopedic Surgeon.
T. A. STODDARD, M.D.,	Assistant Orthopedic Surgeon.
E. F. GLASER, M.D.,	Ophthalmologist.
ABEL W. JOHNSON, M.D.,	Otorhinolaryngologist.
LIONEL PLAYER, M.D.,	Urologist.
O. S. COOK, M.D.,	Roentgenologist

Consulting Staff

HAROLD BRUNN, M.D.,	Surgery.
HOWARD MORROW, M.D.,	Dermatology.
WALTER C. ALVAREZ, M.D.,	Medicine.
MILTON B. LENNON, M.D.,	Neuropsychiatry.
WALTER I. BALDWIN, M.D.,	Orthopedic Surgery.
JAMES T. WATKINS, M.D.,	Orthopedic Surgery.

Interns

F. Y. KITSUDA

MEDICAL ALUMNI ASSOCIATION

President	H. NAFFZIGER, M.D.
Vice-President	DEWEY POWELL, M.D.
Secretary	H. E. MILLER, M.D.
Treasurer	LLOYD BRYAN, M.D.
Historian	EDWARD CHAMBERLAIN, M.D.

Executive Committee

A. KEENAN, M.D.	P. CASTELHUN, M.D.
L. Baccigaluppi, M.D.	

OFFICERS OF THE ASSOCIATED STUDENTS

(University of California Medical School)

1920-21

President	RICHARD O. SCHOFIELD
Vice-President	ELENOR M. THOMPSON
Secretary	EDWARD S. BABCOCK
Treasurer	LACEY G. HUNTER
Manager Student's Store	FRANK W. YOCUM

Class Representatives on Executive Committee

1921	C. V. THOMPSON
1922	MONROE SUTTER
1923	ARTHUR E. DART
1924	HAROLD A. MORSE

HISTORY AND DEVELOPMENT OF THE SCHOOL

In 1862 Dr. H. H. Toland erected a building to serve as the nucleus of a medical school. This was subsequently known as Toland Hall, and in 1872 was formally transferred to the Regents of the University of California as a department of the University. For many years the affiliation was merely nominal and the medical faculty was in entire control of the policy of the school, the support of the institution being derived from fees of the students.

In 1895 the course of instruction was extended from three to four years. In 1898 the school was moved to its present location on Parnassus Heights, a tract of land of thirteen and one-half acres donated to the University by the late Adolph Sutro. Funds were provided by the Legislature to erect buildings for law, medicine, dentistry and pharmacy, and at a later date the law building was transferred by the Board of Regents to the Medical School.

In 1902 the Board of Regents adopted a resolution of vital importance to the Medical School. Instead of preserving the former loose affiliation it was determined to regard the medical department as an integral part of the University. The properties of the school were transferred to the University, the students' fees were turned into the general University fund and support of the school was assumed by the Regents. The first two years of medicine were at once put upon an academic basis and suitable laboratories equipped.

With the destruction of the Out-Patient Department by the earthquake and fire of 1906 it became necessary to transfer the work of the first two years to Berkeley and to transform the main building of the school into a hospital and out-patient clinic. In December, 1911, the Regents of the University announced their intention of bringing together the various departments of the school, of providing a proper modern teaching hospital and of placing the clinical years upon an academic basis. Therefore, on April 9, 1912, it was resolved to consolidate all departments of the school in San Francisco as soon as feasible. A recommendation of the President of the University was adopted which provided a plan of reorganization for the clinical years.

Clinical instruction is now divided into four main departments—Medicine, Surgery, Diseases of Women, and Pediatrics. The departments of Obstetrics and Gynecology and Pediatrics are in charge of vocational teachers and it is also contemplated to place the departments of Medicine and Surgery upon the same basis.

In 1914 a Department of Tuberculosis and a Department of Psychiatry were established and work in these departments included in the curriculum.

In 1915 arrangements were perfected by which an agreement with the Hospital for Children and Training School for Nurses was brought about and

in the same year the Regents of the University agreed to take over the Hahne-mann Medical College of the Pacific and to include electives in Homeopathy in the curriculum of the Medical School.

In 1916 Biochemistry was separated from Physiology and a department of Biochemistry and Pharmacology established.

In 1917 the new University Hospital building was completed and occupied.

In 1919 a Nurses' Home, in connection with the University Hospital, was completed.

This year an agreement of affiliation between this school and St. Luke's Hospital was consummated. Under its terms the opportunities offered by St. Luke's Hospital and its allied clinics are open to students of this school.

The Regents have adopted a plan for the future development of the school. This plan contemplates new buildings to house the departments of Anatomy and Pathology, Physiology and Biochemistry, the erection of an out-patient building, and the adaptation of existing buildings for purposes of administration, students' quarters, laboratories and library space.

THE GEORGE WILLIAMS HOOPER FOUNDATION FOR MEDICAL RESEARCH

In memory of her husband, George Williams Hooper, a pioneer citizen of San Francisco, Mrs. Hooper, on Commencement Day, May 14, 1913, transferred to the Regents of the University certain valuable property to serve as a foundation for an institute of medical research. The income at present provided is \$50,000 a year.

The formal opening of the Foundation was celebrated on March 7, 1914. Addresses were delivered by Dr. Henry S. Pritchett, President of the Carnegie Foundation for the Advancement of Teaching; Dr. Richard M. Pearce, Professor of Research Medicine, University of Pennsylvania; and Hon. Curtis H. Lindley. The policy and work of the Foundation is determined by an advisory board of seven members conferring with the Regents of the University.

The building formerly occupied by the Veterinary School has been devoted by the Regents of the University to the work of the Foundation. Dr. George H. Whipple, formerly Associate Professor of Pathology in Johns Hopkins University, is Director, and is also Professor of Research Medicine in the Medical School. The work of the Hooper Foundation, therefore, is closely correlated with that of the Medical School. Workers in the Research Laboratory have free access to the University Hospital wards and positions in the Hooper Foundation will be available for candidates in the Medical School who desire to do advanced work in laboratory or border line research.

**REQUIREMENTS FOR ADMISSION
AND FOR GRADUATION**

REQUIREMENTS FOR ADMISSION*

A preliminary collegiate preparation is required for the course in medicine, and men and women are admitted on the same terms. As candidates for the degree of Doctor of Medicine the school receives the following:

1. Graduates of approved colleges or scientific schools who present evidence of a satisfactory training in chemistry, physics, zoology, English composition and literature and a reading knowledge of German or French.† The courses in chemistry must include inorganic and organic chemistry.

2. Students in the College of Letters and Science of this University who have attained senior standing may, at the beginning of their fourth or senior year in the University, register as students in the Medical School, and upon completion of the first year in the Medical School may receive the bachelor's degree in the College of Letters and Science. Such students must also furnish evidence that they have had a satisfactory training in chemistry, physics, zoology, English composition and literature and that they possess a reading knowledge of German or French.†

3. Students who have satisfactorily completed at least two full years of collegiate work in this University, or its equivalent.‡

The studies pursued during the two years include English, American history and civics, mathematics, chemistry, biology (zoology), physics, and German or French.† Applicants for admission to the Medical School who have pursued their pre-medical studies in some other university must submit credentials from the institution in which they have studied. This statement should include the number of hours devoted to classroom and laboratory work and also the grade received in each subject. For the guidance of those who wish to arrange their preliminary training the following courses given in this University present the minimum of satisfactory preparation in the sciences named (numbers refer to the Circular of Information—Academic Departments—for 1920-21): Chemistry 1A-1B, 8, 9; Physics 2A-2B, and 3B; Zoology 1A-1B, English 1A-1B or 1x.

In preparation for these studies it may be mentioned that high school physics and chemistry are necessary for enrollment in the beginning university courses in the same subjects.

Whereas these requirements as specified will be accepted for admission in the medical school, it should be pointed out that it is highly desirable that the student should not content himself with two years of college work, but should take at least three years if possible. By this means not only is more time

*All inquiries should be addressed to the Secretary of the University of California Medical School.

†All subjects must be satisfied in full before matriculation.

‡Students who desire to matriculate in the Medical School in and after August, 1923, must have satisfactorily completed at least THREE full years of collegiate work.

offered for work in subjects of general culture outside the scientific requirements but by a combined eight-year course (three years as an undergraduate in the university and five years in the medical school) the two degrees of A.B. and M.D. may be obtained.

Students taking the combined course have the privilege of broad election from the various departments of the University, and they are advised to make their selection from subjects not related to the specific requirements.

The faculty of the Medical School is authorized to refuse admission to students who have a low academic record.

ADMISSION TO ADVANCED STANDING

Applicants for admission to advanced standing may become candidates for the degree of M.D. under the following conditions: (1) They must furnish evidence that they were eligible for admission to the first year of this school. (2) They must show that courses equivalent in kind and amount to those given in this school in the year or years preceding that to which admission is desired have been satisfactorily completed in an acceptable medical school.* Students taking work at a college with a lower classification will not be granted credit. (3) At the discretion of the Dean, they must be prepared to pass examinations in those subjects for which they ask credit.

INSTRUCTION FOR GRADUATES IN MEDICINE

Graduates in medicine may arrange with the heads of the different departments for special work. Graduate students may enter at any time during the year and must register at the Dean's office before beginning work.

Except under extraordinary circumstances and at the discretion of the Advisory Board of the Medical Faculty, persons who have already received the degree of Doctor of Medicine will not be admitted as candidates for that degree from this University.

CLASS STANDING AND EXAMINATION

The judgment of an instructor upon the work of a student may be determined by (a) personal contact and observation of routine work, (b) by oral, written or practical examination, (c) by a combination of these methods.

It is optional with each department whether students are examined at the end of each course or examined when the work of a department is completed.

For the determination of the students' right to advancement and graduation each department makes such rules as it deems necessary, and the result is indicated as "Passed with Honor," "Passed," or "Not Passed."

*By an acceptable medical school is meant one classified as "A" by the American Medical Association, and whose entrance requirements are equivalent to those of this School.

At the end of the pre-clinical period and at the end of the period of required work the students' records are referred to the respective committees on instruction for review. Students who fail to pass in any two major subjects, in one major and three minor subjects, or in six minor subjects may be dropped from the Medical School. Students who fail to pass in a major subject or in three minor subjects will be placed on probation and must take a second examination before the following half-year. Students who fail in the second examination may be dropped from the Medical School.

Students who have an unabsolved failure in any one subject of the pre-clinical period will not be permitted to enter the third year except by recommendation of the Advisory Board of the Medical School.

Students who have an unabsolved failure at the end of the fourth year will not be recommended as entitled to the degree of Doctor of Medicine or permitted to enter their intern year until the failure is absolved in such manner as may be indicated by the Advisory Board of the Medical School.

The Faculty reserves the right to serve the connection of any student with the Medical School at any time for what it deems either mental, physical, or moral unfitness for a career in medicine.

LEAVES OF ABSENCE

Students who withdraw from the Medical School without notice or who fail to report after a leave of absence will automatically terminate their connection with the Medical School.

REQUIREMENTS FOR GRADUATION

The candidate for the degree of Doctor of Medicine must have attained the age of twenty-one years and must be of good moral character. He must have studied medicine for four full years and must have attended four annual courses as a matriculated student (not including the fifth, or intern year), the last of which has been spent in this school. He must have completed the required work, have fulfilled satisfactorily all special requirements, and have received a satisfactory grade throughout the entire medical course. He must have discharged all indebtedness to the school.

FIFTH YEAR

Students are required to supplement the academic course in medicine with a year as intern in an approved hospital or laboratory, or as a special worker in a department of the Medical School. Qualified students may take their year's laboratory work after the third half-year.

CURRICULUM IN PUBLIC HEALTH

At the beginning of the second half of the fourth year in the Medical School students may elect to enter Public Health Curriculum C. This curriculum extends over a year and a half, and on its satisfactory completion the candidate is granted the degrees of Doctor of Medicine and Graduate in Public Health (Gr.P.H.).

The first year is devoted to courses offered by the various colleges of the University in Berkeley and the last half-year is devoted to work given in the Medical School.

PUBLIC HEALTH CURRICULUM C

FOURTH YEAR IN MEDICINE

Second Half-year (Berkeley)

Subjects	Units
Civil Engineering 124.....	3
Civil Engineering 128.....	3
Economics 140.....	3
Entomology 126.....	3
Entomology 127.....	2
Hygiene 104.....	3
Hygiene 108b.....	3
	<hr/> 20

FIFTH YEAR IN MEDICINE

First Half-year (Berkeley)

Subjects	Units
Hygiene 107.....	3
Hygiene 108A.....	3
Veterinary Science 117.....	3
Zoology 111.....	3
Zoology 111c.....	3
	<hr/> 15

Second Half-year (Medical School)

Assignments	Units
San Francisco Health Department.....	4
Social Service Department.....	4
State Board of Health.....	4
Field Work in Epidemiology Research (with thesis).....	4
	<hr/> 16

For students in public health and graduates in sanitary engineering provision is made in Public Health Curricula A and B, each leading to the degree of Graduate in Public Health. The instruction of the last year in each of these two curricula is given in the Medical School. Out-lines of these curricula will be found in the *Announcement of the Graduate Division* and the *Circular of Information, Academic Departments*.

GENERAL INFORMATION

REGISTRATION

Applications for admission and for advanced standing must be addressed to the Secretary of the Medical School, San Francisco. *They must be received not later than May 1.*

Students will not be admitted to medical courses until they have registered at the Student's Office of the Medical School, Parnassus and Third avenues, San Francisco.

FEES

The charge for tuition is one hundred and fifty dollars per annum, payable in two installments, August and January. A key and breakage deposit of \$25 in the first and second years and of \$10 in the third and fourth years is required for the use of lockers and to cover the cost of material used in laboratories and possible damage to college buildings and equipment.

In the first year there is an additional fee of \$15 for dissecting material, \$5 for each part.

During the first year and a half an Infirmary and Gymnasium fee of \$5 per half-year is required.

Students not registering on the dates announced will be charged \$2 additional.

Students not appearing for examinations on specified dates will be required to pay a fee of \$5 for a special examination.

Students registered in the Medical School and taking less than the required amount of work in any given half-year are required to pay a proportionate fee for tuition. Such students must first obtain the permission of the Medical Faculty.

Students will not be permitted to register until they have paid their fees for the ensuing half-year. A student whose fees remain unpaid at the time fixed for their payment must cease making use of all privileges as a student until his financial relations with the University have been arranged satisfactorily with the Secretary of the Medical School. Failure to comply with this rule may result in the student's dismissal.

Rooms and table board may be obtained in Berkeley at the rate of \$35.00 to \$50.00 per month and near the Medical School in San Francisco at from \$35.00 to \$45.00 per month.

MICROSCOPES AND BLOOD-COUNTING APPARATUS

Students are advised to purchase their own microscopes. A limited number of microscopes are available for rental from the school at a cost of seven dollars per annum. Students using microscopes which belong to the school are liable for damage done the instruments while in their possession.

The character of the practical work requires that each student own a blood-counting apparatus and an ophthalmoscope. These should be purchased at the beginning of the second half of the second year.

Students are also required to supply themselves with the necessary slides and coverslips.

MEDICAL SUPERVISION OVER STUDENTS

Each year the faculty appoints a medical adviser to the students in the Medical School. This officer keeps a definite hour for consultation and when necessary visits students in their homes. Through him the services of specialists are secured when desired.

Students of the first and second year classes are entitled to the advantages offered by the University of California Students' Infirmary in Berkeley. Students resident in Berkeley and requiring hospital care are provided for in the Infirmary. The Infirmary Service of the University Hospital provides for the needs of students under instruction in San Francisco. For this purpose a number of beds have been endowed.

Medical students, in common with all other students of the University of California, are required to pass a physical examination before entering the University. Students under instruction in San Francisco are examined annually.

LIBRARIES

Instruction in the medical sciences and the various branches of clinical medicine is incomplete without constant reference to current and authoritative monographic and periodical literature. In research work the need of a complete reference library is obvious.

Each of the departments in Berkeley—Anatomy, Physiology, Biochemistry, Pathology and Bacteriology—contains a separate departmental library which, although a unit of the general University Library, is thus segregated as part of the working equipment of each department. Through the generosity of Mrs. Phoebe A. Hearst and Mrs. William H. Crocker, these departmental libraries are unusually complete; they also participate in the annual distribution of University Library funds.

The Medical Library in San Francisco comprises a file of approximately 10,000 volumes of bound journals and books, 14,500 university dissertations, 5,000 reprints, with a subscription list of nearly 200 of the best English, French, and German periodicals. A notable collection of ophthalmological journals is a valued feature of the library. Access to the magnificent medical library of the Surgeon General's Office in Washington, D.C., and to several excellent libraries in the city affords further opportunity for study and research. Recently, the Library was moved into the south wing of the Medical School Building which provides quarters that are sunny, airy, and commodious, permitting of a convenience in arrangement not heretofore possible, and providing ample floor space for expansion. A generous appropriation for the purchase of books and periodicals is anticipated for the coming year. A trained librarian is in charge.

LABORATORIES AND CLINICAL OPPORTUNITIES

Medical instruction of the first year and a half is carried on in the separate departmental buildings of Anatomy, Physiology, Biochemistry, and Pathology and Bacteriology situated on the University Campus in Berkeley. The present laboratory buildings are regarded as temporary, but are spacious and easily increased in size to meet growing demands; they are fully equipped not only for teaching but for research.

A students' laboratory has been equipped in one of the existing buildings in San Francisco. This is used for instruction in clinical pathology, taught in the second half of the second year and also used by the students of the third and fourth years, to perform their necessary individual laboratory work. The various clinical departments have laboratories situated in the buildings in San Francisco.

THE UNIVERSITY HOSPITAL

The University Hospital is essentially a teaching hospital under the control of the Board of Regents of the University of California. The medical affairs of the hospital are so managed as to secure the most thorough utilization of the patients for the purpose of instruction and research.

Several endowment funds and the support of the University make free beds available for the study of interesting and unusual cases. The Associated Charities of San Francisco send to the hospital a number of deserving patients. Clinical material also is drawn from distant points. It is aimed to make this hospital a consulting place, to a great extent, for physicians of the State, a place where patients unable to pay for costly examinations or expert opinion may be sent for further investigation, returning to their own physicians with a report of the findings.

The new hospital building was erected and equipped by friends of the University at a cost of about \$750,000. It is located on Parnassus avenue, between Third and Fourth avenues, directly adjoining the Medical School. The site overlooks Golden Gate Park, the Presidio of San Francisco, San Francisco Bay, and the Pacific Ocean.

The hospital has a capacity of 240 beds.

The main building is seven stories in height and extends along the entire Parnassus avenue frontage.

As the investigation of obscure diseases and the instruction of medical students and post-graduates are two of the chief aims of the hospital, facilities for these purposes have been carefully provided.

A separate entrance and lobby is provided for students. By this arrangement greater privacy is obtained for patients. This arrangement also possesses great advantages for the students as well as the staff.

Throughout the hospital its efficiency as a teaching institution has been kept paramount.

THE SAN FRANCISCO HOSPITAL

The San Francisco Hospital has occupied its new buildings since July 1, 1915.

The present group consists of an executive building and sixteen large wards, with well arranged service rooms and clinical laboratories adjacent.

One wing contains the surgical unit, with six large operating rooms and the amphitheater, a well equipped Roentgen-ray department, and an emergency hospital. This latter will, during the coming year, serve as the main operative department for the city's Emergency Service, and will give unexcelled advantages to the interns and students in emergency surgical work.

The Pathological Building is provided with two autopsy rooms and a demonstration room, which will accommodate between 75 and 100 students. The laboratories of the City Board of Health and a pathological room are situated on the upper floor, the roof of the building being arranged to accommodate the various animals used in experimental and research work.

Opportunity will be furnished here for interns to receive instruction in laboratory work, including the examination of milk, water, blood, toxicological specimens and preparation of vaccines.

The post-mortem material in the hospital is invaluable.

The Medical School controls approximately 240 beds (exclusive of the tuberculosis wards). These are equally divided for instruction in clinical medicine, clinical surgery, and the specialties. Additional wards are used for the teaching of gynecology and obstetrics and pediatrics. The laboratories adjacent to the wards are fully equipped for the use of interns and students and the new laboratory building will give opportunity for special research. A communicable disease wing affords opportunity for the study of diseases of this character.

THE HAHNEMANN HOSPITAL

This hospital is now entirely under the control of the Regents of the University of California and is run as a general hospital. Its capacity is 126 beds of which about 50 are set aside for the use of industrial cases.

A well organized staff, selected from all departments, is in charge. Students are assigned to the hospital in small groups for the purposes of study and investigation.

ST. LUKE'S HOSPITAL

Under the terms of affiliation between the University of California Medical School and Hospitals and St. Luke's Hospital, all nominations to the visiting and resident staffs of this hospital are made by the University of California Medical School.

The hospital has a capacity of 150 beds and is located in a thickly populated part of San Francisco. Several out-patient clinics are maintained by this hospital. This affiliation permits of exceptional opportunities for the teaching of graduates and undergraduates of this School.

OUT-PATIENT DEPARTMENT

The Out-Patient Department of the University Hospital provides facilities for instruction in all branches of clinical medicine and surgery. Diseases of every type are treated in the various clinics, each of which is under the supervision of a chief who is responsible for the instruction of the students.

During the third and fourth years groups of students are assigned to the clinics in medicine, surgery, woman's, pediatrics, dermatology, urology, ophthalmology, laryngology, orthopedic surgery, etc.

A large and varied clinical material is available and each year the growth of this department has been manifested by a continuous increase in the number of patients treated during the year. At present the daily average number of visits to the clinics is over 300. All clinics are held simultaneously in the morning, so that patients may be referred from one clinic to another with great facility. With but few exceptions clinics are open in the afternoon and it is contemplated that all departments will be operated throughout the day.

Night clinics in medicine, surgery, urology and obstetrics and gynecology are now established.

SOCIAL SERVICE DEPARTMENT

The Social Service Department consists of public health nurses and social workers who do home visiting, giving instructions in hygiene and home care of the sick and deal with the social problems of both hospital and clinic patients, either directly or through coöperating agencies. In addition to the general social work of the clinics, there are special workers who care for sick infants, the insane, tuberculosis, venereal and prenatal cases.

A course in Public Health Nursing is offered to graduate nurses. These students are given training by the Social Service Department. An opportunity to study medical social service is offered to students who are assigned to the various clinics.

TUBERCULOSIS CLINICS

A chest clinic is maintained as a part of the general Medical Clinic in the Out-Patient Department of the University Hospital and to this clinic all cases of suspected pulmonary tuberculosis are referred. Those patients needing hospital care are referred to the tuberculosis wards of the San Francisco Hospital where approximately one hundred beds are available. One-half of

the tuberculosis wards of the San Francisco Hospital are in charge of the University of California Medical School's staff and patients of all types are available for investigation and teaching purposes.

THE HOOPER FOUNDATION FOR MEDICAL RESEARCH

The institution is located in a building adjacent to the hospital and its Director is Professor of Research Medicine in the Medical School. A number of beds in the hospital are at the disposal of the Foundation and may be occupied by patients suffering from diseases which at the moment are the subject of study and investigation by members of the Research Laboratory staff.

Professor Whipple and his associates offer elective courses to the medical students and a limited number of students may undertake research problems. The selection of such students will depend upon their fitness for this work. Opportunities will be afforded graduates in medicine or special students who wish to enter upon a career of research.

TEACHING FACILITIES AT THE CHILDREN'S HOSPITAL

An agreement with the Hospital for Children and Training School for Nurses adds a large amount of available teaching material. The children's medical, surgical, and orthopedic services have about seventy beds available for teaching purposes, and with the contagious pavilion the opportunities for instruction are very good. Opportunities for small sections to elect work in the Children's Hospital are afforded.

COURSES IN HOMEOPATHY

Elective courses in homeopathy are offered upon the following basis:

1. All students matriculating in medicine must fulfill the requirements demanded by the University of California Medical School.
2. Instruction in Homeopathy is in charge of two professors, a Professor of Homeopathic Materia Medica and a Professor of Applied Homeopathic Therapeutics.
3. All students in the first two years take all work in common except in Materia Medica. In this subject 32 hours of so-called "Regular" Materia Medica and 32 hours of Homeopathic Materia Medica is given in the second half of the second year. Students may elect either one of these courses and hours of instruction are so arranged as to permit of election of both courses by all students who may so desire.
4. In the third and fourth years all students take the same courses except in Materia Medica, Therapeutics and Clinical Medicine. Elective courses

in these subjects are offered so that students may choose whether they take work under instructors of the so-called "Regular" or of the "Homeopathic" school.

SCHOLARSHIPS

Through the generosity of Mrs. Frances B. Sanborn, two of the six scholarships known as the Sheffield Sanborn Scholarships have been assigned to the Medical School. These scholarships yield \$250 per annum at present and are open only to students who have not yet received the degree in medicine and who otherwise would not have the opportunity to acquire a university training.

The Willard Thompson Scholarship is open to students of the Medical School who are residents of Utah. This scholarship yields \$600 per annum.

The alumni of the Medical School have established a scholarship known as the "William Watt Kerr Scholarship in Medicine." It yields \$400 per annum and is awarded to a worthy student of the Medical School.

Applications for these scholarships must be filed with the Recorder of the Faculties by March 1 of each year. A blank form of application may be obtained from the Recorder of the Faculties at Berkeley or from the Students' Registration office at San Francisco.

FELLOWSHIPS

Four fellowships are offered by the George Williams Hooper Foundation for the year 1920-21. Each student fellow receives a grant of \$600 and is charged no medical school nor laboratory fees. Applicants must have had at least one and one-half years of medical school training in the University of California Medical School or its equivalent. A year is devoted to this work, and consists mainly of research in experimental medicine. This work will be in part independent but in part coöperative research with other members of the laboratory staff. The student fellow is expected to do some advanced work in gross pathology, to ensure a broad training in pathological anatomy. The work of this fellowship should give the research fellow exceptional training in the fundamental medical sciences and a broader outlook in general medicine. The value of this fundamental training to the medical student can not be overestimated, and a true understanding of research medicine can be obtained in no other way.

The work done under this fellowship, if satisfactory, may count as the fifth year in medicine. If the necessary preliminary requirements have been fulfilled, it may count toward the attainment of a higher degree (Master's Degree or Doctor of Philosophy).

A fellowship in neurosurgery amounting to \$1000-1200 per annum is open to members of the house staffs of the University of California Hospital and allied hospitals or to persons having equivalent training. This fellowship is devoted to research in problems connected with neurosurgery.

HOSPITAL APPOINTMENTS

Each year nineteen appointments as interns in the University of California Hospital are available. Eighteen interns are assigned to the various clinical departments and one as pathological intern. There are also fourteen internships on the University of California Medical School Service at the San Francisco Hospital; three at the Hahnemann Hospital; three at St. Luke's Hospital; and ten at the Children's Hospital, the latter available for women only. Similar positions are also open at the Letterman General and other Army hospitals.

These internships are open to fifth year students of the University of California Medical School or to fifth-year students and graduates of some other approved medical school. The appointments are made by, or upon the recommendation of the Medical Board, which takes into account both the character of the work of the candidate throughout his entire career in the medical school and also his general fitness.

Positions have been established for residents and assistant residents at the University Hospital. These appointments, not necessarily limited to one year, are open to graduates in Medicine who have had previous hospital experience and possess suitable qualifications for the work. Two positions as House Officer in Medicine and Tuberculosis and one each in Surgery, Obstetrics and Gynecology and Pediatrics and Isolation Service on the University of California Service at the San Francisco Hospital, have also been established and are open to persons of similar qualifications.

LOAN FUNDS

Through the generosity of an alumnus of the Medical School a small sum of money, known as the "Wolcott Loan Fund," has been set aside to be loaned to needy students of the upper classes.

Under the terms of a gift to the Medical School the income from the "William Watt Kerr Loan Fund" may be loaned to students requiring aid.

Students requiring financial assistance should consult with the Secretary of the Medical School.

THE ASSOCIATED STUDENTS

This body includes all students matriculated in the Medical School.

The officers of the association, elected by the student body, include a President, Vice-President (selected from among the fourth year students), a Secretary and Treasurer.

These, together with representatives from each class, form an executive committee which constitutes the governing body of the association. When occasion demands, this committee sits as a Students' Welfare Committee and makes recommendations to the Faculty on cases requiring disciplinary action.

A Students' Coöperative Store has been established under the supervision of a manager, appointed each year by the Executive Committee.

PLAN OF INSTRUCTION AND ANNOUNCEMENT OF COURSES

PLAN OF INSTRUCTION

GENERAL STATEMENT

As in other departments of the University, instruction in the Medical School extends from the middle of August to the middle of May. The academic year is divided into half-years of sixteen weeks duration. The first half-year extends from August to the Christmas recess; the second from January to the close of the academic year.

The faculty is in sympathy with the principle which allows the student great freedom in choosing the direction his studies shall take. A system of instruction has been inaugurated which will permit free time for elective work.

The course of instruction is in harmony with the principles adopted by the Association of American Medical Colleges. Following the terminology employed by that association, the amount of work required in various subjects is indicated by the number of hours devoted to them. But in the case of the pre-clinical subjects—*anatomy, physiology, biological chemistry, pharmacology, pathology, and bacteriology*—the courses are also assigned a “unit” value such as other departments of this University employ. This expression is used since, under certain conditions, the subjects mentioned may be elected by non-medical students to fulfill the requirements for degrees other than the medical. In so far as the courses required for medical students are concerned, these units have no particular significance. The elective courses in these departments, however, may be taken by medical students in fulfilling requirements for a Master's degree, and the required courses may be counted in the combined course as fulfilling units for the A.B. degree, as well as leading towards the degree of M.D.

During the first year and one-half in the Medical School, students must conform to the general University rules of registration. Both matriculation and University work are measured in “units.” A unit is one “hour” (50 minutes) of the student's time weekly for one-half year in lecture or recitation together with the time necessary in preparation therefor; or a longer time in laboratory or other exercise not requiring preparation. Thirty-two units represent the work of the average year. During the remainder of the period in the Medical School, the student must conform to the curriculum as herein set forth.

In general, the five-year curriculum leading to the degree of Doctor of Medicine falls into four periods: first, that devoted to the preclinical subjects; second, that occupied by prescribed clinical instruction; third, the elective

period; and fourth, the intern or laboratory year. Selected students may take their laboratory year after a year and one-half of prescribed work.

As the requirements for admission are such that the student enters after he has received training in physics, inorganic and organic chemistry, and biology, these subjects are not taught in the medical school. The first period of instruction covers three half-years and is devoted to anatomy, histology, physiology, biological chemistry, bacteriology and immunology. Nearly all the work in these subjects is obligatory. They provide the basis for the study of clinical medicine; and the laboratory instruction which occupies the major portion of the student's time during this period is planned to develop powers of accurate observation.

Approximately one-half of the second half of the second year is devoted to work in the pathological laboratory. The remainder of the time is largely devoted to the propedeutics of medicine and surgery such as, physical diagnosis, laboratory diagnosis, clinical physiology and elementary surgery. It is aimed to train further the faculty of critical observation and to instill into the student good habits in systematically carrying on the examination of patients and recording the results. Pharmacology and materia medica are also taught during this half-year.

Obligatory clinical instruction continues through the third year and is given in the classroom, the clinical laboratory, the dispensary, and at the bedside. In the Out-Patient Department students take the histories of patients and make the necessary examinations under the direction of the attending staff. In the wards they are assigned cases for thorough study and have every opportunity to become familiar with therapeutic methods.

During the first half of this year, instruction in neurology, dermatology, pediatrics and obstetrics is begun. During the second half, short introductory courses in the specialties aim to familiarize the student in the use of various diagnostic methods, such as the use of the ophthalmoscope, laryngoscope, cystoscope, etc.

In the first half of the fourth year the required work in the major subjects is completed and, for the remainder of this period, the class is divided into sections for instruction in the several specialties. The last half of the fourth year is devoted to electives, offered by all departments of the School.

Throughout the entire clinical period, the work in the various clinical laboratories is carried on in connection with the section work in the wards and out-patient department.

During the third and fourth years, one morning each week is set aside in order that the classes may attend amphitheatre clinics in medicine and surgery and clinico-pathological conferences.

ARRANGEMENT OF STUDIES 1920-21
AND TOTAL NUMBER OF HOURS IN EACH SUBJECT

Medical School

SUBJECTS	First Year		Second Year		Third Year		Fourth Year		Fifth Year	Totals
	1st half	2nd half	1st half	2nd half	1st half	2nd half	1st half	2nd half		
Gross Anatomy, including Applied Anatomy	448	.....	64	.....	.....	.....	.....	.....	.....	512
Microscopic Anatomy	192	.....	84	.....	.....	.....	.....	.....	.....	276
Physiology	288	.....	.....	.....	.....	.....	.....	.....	288
Biochemistry	272	.....	.....	.....	.....	.....	.....	.....	272
Pathology	64	160	96	8	8	8	8	344
Bacteriology, including Serology and Immunology	224	.....	.....	.....	.....	.....	.....	224
Preventive Medicine and Public Health	32	32	.....	.....	64
Pharmacology, including Materia Medica	144	48	.....	.....	.....	.....	192
General Medicine, including Laboratory Diagnostics	288	148	128	48	24	.....	636
Pediatrics	64	40	24	.....	.....	128
Nervous and Mental Diseases	32	88	16	.....	.....	136
Dermatology and Syphilis	16	56	.....	.....	.....	72
Medical Jurisprudence	16	.....	.....	16
Surgery	32	172	112	94	16	.....	426
Orthopedic Surgery	16	70	.....	.....	86
Urology	16	54	.....	.....	70
Ophthalmology	16	54	.....	.....	70
Otology, Rhinology and Laryngology	16	54	.....	.....	70
Roenlgenology	32	.....	.....	.....	32
Obstetrics	32	32	78	.....	.....	142
Gynecology	16	48	.....	.....	64
Homeopathic Electives	(32)	(32)	(32)	.....	.....	.....	.....
Electives	(48)	(172)	.....	.....	.....	.....	560*	.....	560
Totals	640	560	436	624	608	608	596	608	.....	4680

INTERN OR LABORATORY YEAR

*Required.

DEPARTMENTS OF INSTRUCTION

ANATOMY

HERBERT McLEAN EVANS, B.S., M.D., Professor of Anatomy.
ROBERT ORTON MOODY, B.S., M.D., Associate Professor of Anatomy.
VICTOR E. EMMEL, A.B., M.S., Ph.D., Associate Professor of Anatomy.
PHILIP E. SMITH, A.B., M.S., Ph.D., Assistant Professor of Anatomy.
KATHERINE J. SCOTT, A.B., M.D., Instructor in Anatomy.
MELVILLE L. MONTGOMERY, A.B., Assistant in Anatomy.
THEODORE C. LAWSON, A.B., Assistant in Anatomy.

The courses of instruction in anatomy are given in Berkeley. The classes in gross anatomy are divided into small groups in order to avoid the inevitable noise and disturbance which result from a large group of students working together. Material for dissection is prepared in the embalming room, which is equipped with the necessary hydraulic apparatus to inject both the embalming fluids and the color masses for the arteries and veins in any desired pressure. After this process is completed the bodies are preserved in a carbolic solution.

The teaching museum consists of specially prepared corrosions, injections, dissections, and models.

The laboratory for microscopic anatomy is outfitted with microtomes and is supplied with all the stains and reagents necessary for the ordinary and finer methods of microscopic preparation.

The routine work of the department falls into the natural divisions of gross and microscopic anatomy, and some effort is made to have the transition between the two as gradual as possible. Inasmuch as the process of formal education must end sooner or later, the department endeavors as far as possible to make the students entirely independent. This is further encouraged in the elective system, by which a certain amount of selection is allowed in the regular work of the department.

MICROSCOPIC ANATOMY

The various tissues and organs of the body are studied from the developmental point of view so that their gradual differentiation from the embryonic to the adult form is taken up. Since function and structure cannot be separated in the consideration of the microscopic appearance of tissues and organs, their chief physiological aspects are briefly considered. The study of each group consists of three main steps: (1) for the purpose of orientation, the consideration of their macroscopic appearances, relations, and physiology; (2) the transition from the macroscopic to the microscopic conditions is made with a dissecting microscope and teasing methods, free-hand or frozen sections; (3) the more detailed study is made from specimens prepared by methods designed to emphasize their principal microscopic features. In this course the value of comparing the organs of a series of animals is recognized and the student is given numerous comparative specimens.

101. Histology and Microscopic Organology.

EVANS, SCOTT, —.

The course is given from the viewpoint of the activities of the living cell, the relation between structure and function being held uppermost. At the same time opportunity is afforded for a comprehensive review of human and comparative histology. Individual loan collections supplement the laboratory work.

First year, first half; 3 laboratory and 3 lecture periods a week. M W F,
8-12. (192 hours—6 units)

102. General Human Anatomy.

MOODY.

A study of the human body. Demonstrations and laboratory study of prepared human dissections, models and microscopic slides. For students of the Public Health and Physical Education departments. Other non-medical students may be admitted by arrangement with instructor if size of class permit. Prerequisite: Zoology 1A or Physiology 1.

Second half-year. Demonstrations Tu Th, 9; laboratory W, 1-4.

103. Organs of Special Sense and Neurology.

SMITH, SCOTT.

In this course special attention is paid to the macroscopic and microscopic architecture of the central nervous system and the organs of special sense. The neuron studied in course 101 is used as the unit in the construction of the nervous system with a view of tracing origin, development, and final arrangement of the different pathways for nerve impulses. Considerable attention is given to a consideration of the growth and development of the nervous system.

Second year, first half, seven weeks; 2 lectures and 3 laboratory periods a week. Tu Th S, 8-12. Dig (84 hours—3 units)

105. Systematic Human Anatomy.

MOODY, EMMEL, SMITH.

The systematic dissection of the human body. For convenience the work is divided into thirds or "parts," to-wit: Head and Neck, Arm and Thorax, Leg and Abdomen. To better facilitate instruction, students in the Medical School are required to finish each part in accordance with a prescribed time schedule.

First year, first half; Tu Th, 8-12; M Tu W Th F, 1-5.

(448 hours—10 units)

108. Regional and Topographical Anatomy.

MOODY.

Living models, special dissections and sections of the body are used in this course to enable the student to become more familiar with structural relations and to assemble information obtained in preceding dissections. Students who are accepted for course 213 may substitute that course for this course.

Second year, first half, eight weeks. Section I, M W, 8-12; Section II, Tu Th, 8-12.

(64 hours—3 units)

109. Anatomy for Physicians and Advanced Students.

The Staff.

(Hours to be arranged to suit applicants)

120. Anatomical Draughtmanship and Illustration.

SWEET.

A course in anatomical draughtmanship open to medical students of the First and Second classes, Art students, research workers and members of the Faculty who desire to familiarize themselves with the best methods of graphic reproduction of gross and microscopic structures either as methods of record or for publication.

First half-year.

(1 hour—4 units)

ELECTIVES

209. Human Embryology.

EVANS.

Opportunity is offered for the study of specific problems in human embryology. The collections of both human and comparative embryological material are constantly being augmented. The elective is offered only to students familiar with vertebrate embryology.

(Hours to be arranged)

210. Physiological Anatomy of Reproduction.

EVANS.

Informal conferences and demonstrations. The oestrous cycle, implantation, comparative placentation, etc. Outside reading required.

1 hr. weekly.

(Hours to be arranged)

211. Haematology.**EMMEL.**

An intensive study of the blood and blood forming organs and their relation to current haematological problems. The subject includes the finer structure of the nuclear and cytoplasmic elements and their role in physiological reactions of the blood; cytomorphism and histogenesis as correlated with specialization of function; origin and localization in embryonic development; proliferation, regeneration and quantitative regulation with reference to normal and abnormal activities in the adult organism. (Hours to be arranged)

213. Original Investigation.**EVANS** and other members of the Staff.

Students and others who are prepared to undertake research in any of the anatomical sciences will be given facilities and encouragement by members of the staff. Time devoted by the majority of the second-year class to course 108 can be applied here by those specially qualified. (Hours, optional)

214. Seminar.

Topics will be discussed by the staff and those electing the course. For the year 1920-21 topics will be chosen from the field of human and comparative embryology. (Hours to be arranged)

PHYSIOLOGY

ROBERT GESELL, A.B., M.D., Professor of Physiology.

SAMUEL S. MAXWELL, B.S., M.S., Ph.D., Associate Professor of Physiology.

THEODORE C. BURNETT, M.D., Assistant Professor of Physiology.

ROSALIND WULZEN, M.S., Ph.D., Instructor in Physiology.

LILLIAN M. MOORE, B.S., M.S., Ph.D., Instructor in Physiology.

ANITA D. LATON, A.B., Assistant in Physiology.

ROBERT T. TROTTER, A.B., Assistant in Physiology.

EDWARD W. BLAIR, A.B., Assistant in Physiology.

Physiology 101 and 102 are required. The remaining courses are open to those students who have the time and the preparation necessary to pursue them with profit.

About one-half of the Rudolph Spreckels Physiological Laboratory is devoted to research and instruction in physiology. There is a good equipment for both general and mammalian physiology and in the same building there is a joint library of the departments of physiology and biochemistry which contains complete sets of the important journals and the more important monographs on physiology and biochemistry.

101M. Physiology—Lectures.

GESELL, BURNETT, MOORE, BLAIR.

This course includes lectures, demonstrations and conferences. The work covers some of the fundamental vital phenomena common to all living organisms, which is coordinated with a systematic study of mammalian physiology including muscle, nerve, circulation, respiration, central nervous system, sensation, digestion, secretion and certain phases of metabolism. The demonstrations cover in a systematic way the topics of the lectures. Particular attention is given in these demonstrations to qualitative experiments and experiments too difficult for the inexperienced student to perform.

Second half year, lectures M Tu W Th, 11 and F, 10. (80 hours—5 units)

102M. Physiology—Laboratory Course.

GESELL, BURNETT, MOORE, TROTTER.

This course is designed to give a first hand knowledge of the subject and a training in physiological technique. While an effort is made to cover the greater part of the subject experiments are chosen which lend themselves best to a training in exact and quantitative methods. Many of the experiments extend through a period of a week and are in the nature of a minor investigation.

Second half year, Laboratory M Tu W Th, 8–11, F, 8.

(208 hours—5 units)

ELECTIVES

103A-103B. **Special Problems.**

The STAFF.

Prerequisites: Physiology 101 and 102 or 101M and 102M.

(Hours and credits to be arranged)

201. **Research in Physiology.**

The STAFF.

(Hours and credits to be arranged)

214. **Journal Club.**

The STAFF.

Hours to be announced.

(No credit)

BIOCHEMISTRY AND PHARMACOLOGY

- W. R. BLOOR, A.B., M.A., Ph.D., Professor of Biochemistry.
 C. L. A. SCHMIDT, B.S., M.S., Ph.D., Assistant Professor of Biochemistry.
 E. S. SUNDESTROEM, M.D., Instructor in Biochemistry.
 ————, Instructor in Biochemistry and Chief of Clinical Laboratories.
 G. W. CLARK, B.S., M.S., Ph.D., Instructor in Pharmacology.
 G. LEB. FOSTER, A.B., M.A., Associate in Biochemistry.
 ————, Assistant in Biochemistry.
 ————, Assistant in Biochemistry.
 ————, Assistant in Pharmacology and Materia Medica.

The required courses are 101M and 102M. The remaining courses are open to those students who have the time and preparation necessary to pursue them with profit. Course 110 is a course in special technique—analytical and preparation—together with reading and is intended to give the student a practical acquaintance with the more important fields of biochemical research. Courses 111 and 210 are offered to properly qualified students who desire to undertake investigation in the field of biochemistry. Especial endeavor is made to provide all necessary facilities for carrying out investigations having a bearing on practical problems of medicine. Admission to courses 110, 111 and 210 is limited to those students who have done work of the grade of 2 or better in course 101.

The joint library of the departments of Biochemistry and Physiology contains complete sets of the more important biochemical, pharmacological and physiological journals and of the more important monographs on biochemical and related subjects.

FIRST YEAR**101M. Biochemistry.**

BLOOR, SCHMIDT, SUNDESTROEM, FOSTER and assistants.

The lectures in this course consist of a brief discussion of the physico-chemical basis of life, a survey of those classes of substances which are to be found in animals and plants together with the changes which they undergo during life and a general survey of the fields of metabolism, nutrition and energy exchange.

The laboratory practice is designed to acquaint the student with the more important constituents of living matter and their chemical behavior and with some of the routine methods used in the study of processes in living animals, especially in man.

Properly qualified students are encouraged to become acquainted with the principles of research by reading and by experimentation under direction.

Second half-year. Lectures, M Tu W Th, at 1; F, at 9; laboratory, M Tu W Th, 2-5.

(272 hours—9 units)

SECOND YEAR

102M. Pharmacology (including Materia Medica). CLARK and assistant.

The physiological action of drugs,—lectures, experiments, demonstrations and reading. A portion of the time will be devoted to the more important phases of *Materia Medica*.

Second half-year. Lectures twice a week; laboratory once a week; library period once a week. (144 hours)

ELECTIVES

110. Advanced Biochemistry BLOOR, SCHMIDT, SUNDSTROEM, FOSTER.

A course of laboratory work and reading intended to familiarize the student with more advanced methods of biochemical investigation and literature. Admission is limited to those students who have done work equivalent to a grade of 2 or better in course 101.

The course may be taken at any time. Credit will be allowed according to the amount of work done. (Credit not to exceed 4 units)

111. Research in Biochemistry (for undergraduates).

BLOOR, SCHMIDT, SUNDSTROEM.

Open to qualified undergraduates.

(Subject, time and credit to be arranged)

210. Research in Biochemistry. BLOOR, SCHMIDT, SUNDSTROEM.

Open to qualified students who have the necessary time at their disposal. (Subject, credit and time to be arranged)

212. Seminar in Biochemistry.

Topics will be discussed by the staff and those electing the course.

(1 unit)

BACTERIOLOGY AND PATHOLOGY

FREDERICK P. GAY, A.B., M.D., Professor of Pathology.

GLANVILLE Y. RUSK, A.B., M.D., Associate Professor of Pathology.

IVAN C. HALL, A.B., M.S., Associate Professor of Bacteriology.

THEODORE D. BECKWITH, B.S., M.S., Ph.D., Assistant Professor of Experimental Pathology.

FRANK B. ROSSON, M.D., Instructor in Pathology.

RUTH L. STONE, M.S., Ph.D., Instructor in Pathology.

MARJORIE W. COOK, A.B., Ph.D., Research Associate in Bacteriology.

LEWIS F. MORRISON, A.B., Assistant in Bacteriology.

DOUGLAS D. STAFFORD, Assistant in Bacteriology.

———, Research Assistant in Pathology.

———, Assistant in Pathology.

JEANETTE N. GAY, A.B., M.S., Edith Claypole Research Fellow in Pathology.

Instruction in pathology and bacteriology is given in the Hearst Laboratory of Pathology and Bacteriology, in Berkeley during the first half of the second year and at the University Hospital and the San Francisco Hospital during the second half of the second year and the third and fourth years.

SECOND YEAR**101. Micro-organisms in their relation to disease. GAY, HALL, MORRISON.**

The comparative etiology of disease with particular study of the animate agents thereof, the pathogenic bacteria and protozoa. The evolution of infectious disease in the animal body (Infection) and study of the methods of bodily defense against them (Immunity). Study, gross and microscopic of the primary changes in fluids and tissues in experimental disease of infectious and non-infectious origin (Experimental Pathology). The work consists of lectures and laboratory exercises. The laboratory work includes an outline course and assigned problems. The course is required of all medical students. It may be taken, with the consent of the instructor, by a few non-medical students who have passed Bacteriology 1 with high standing. The latter students should preferably have had training in Comparative Anatomy and Histology. Fee and deposit for **non-medical students**; Fee, \$10; breakage and material \$10, subject to refund less deduction at end of half-year.

First half-year, lecture M Tu W Th F, 1; laboratory M W F, 2-5, Tu Th, 2-4. (288 hours—7 units)

104A. General Pathology, Morbid Anatomy, and Histopathology.

RUSK, ROSSON.

Systematic discussion of changes in organs and tissues in the diseased human body; macroscopic lesions illustrated by fresh material from autopsies and museum preparations. The technique of autopsies, and the making of protocols is included. Histopathology is taught through the use of a loan collection and preparations from the autopsy materials demonstrated.

Second half-year, four times a week.

(160 hours—6 units)

THIRD YEAR

104B. Morbid Anatomy and Histopathology.

RUSK, ROSSEN, —.

A continuation of 104A. An intensive study of the anatomy and histopathology of current autopsy material.

First half-year, twice a week.

(96 hours)

108A. Clinical and Pathological Conference.

MOFFITT, RUSK.

A co-operative review of the clinical pathological materials. See Department of Medicine.

Second half-year, once a week.

(8 hours)

FOURTH YEAR

108B-108C. Clinical and Pathological Conference.

MOFFITT, RUSK.

Same as 108A.

First and second half-years, once a week.

(16 hours)

ELECTIVES

201. Research: Problems of Bacteriology, Infection, Immunity, and Experimental Pathology.

The STAFF.

Offered in Berkeley either half-year. (Hours and units to be arranged)

202. Research: Neuropathology.

RUSK.

University Hospital, either half-year. (Hours and units to be arranged)

203. Advanced Morbid Anatomy and Histopathology. RUSK and assistants.

Autopsy technic and the working up of tissues and cultures resulting from post-mortem examination. Elective for fourth-year and for graduate students in medicine.

University Hospital.

Either half-year.

(Hours and units to be arranged.)

PREVENTIVE MEDICINE AND HYGIENE

———, Clinical Professor of Preventive Medicine and Hygiene.

WILFRED H. KELLOGG, Ph.G., M.D., Assistant Clinical Professor of Preventive Medicine and Hygiene.

JOHN N. FORCE, Gr.P.H., M.S., M.D., Lecturer in Preventive Medicine and Hygiene.

WILLIAM C. HASSLER, Ph.G., M.D., Lecturer in Preventive Medicine and Hygiene.

Lectures on the epidemiology and control of communicable diseases, the sanitation of water, milk and food supplies, sewage disposal, vital statistics, occupational diseases, child hygiene, industrial hygiene, and public health administration.

THIRD YEAR**101A. Lectures.****KELLOGG, FORCE.**

Second half-year, twice a week.

(32 hours)

FOURTH YEAR**101B. Lectures.**

A continuation of 101A.

First half-year, twice a week.

(32 hours)

For electives in this department see page 87.

RESEARCH MEDICINE

THE GEORGE WILLIAMS HOOPER FOUNDATION FOR MEDICAL RESEARCH

- GEORGE H. WHIPPLE, A.B., M.D., Professor of Research Medicine.
 ERNEST L. WALKER, B.A.S., D.S., Associate Professor of Tropical Medicine.
 KARL F. MEYER, A.B., D.V.M., Associate Professor of Tropical Medicine.
 WALTER C. ALVAREZ, M.D., Assistant Professor of Research Medicine.
 FRIEDA S. ROBSCHT, Assistant in Research Medicine.
 NELSINE MARION NEILSON, B.L., M.A., Assistant in Research Medicine.
 ARTHUR E. BELT, B.S., M.D., Fellow in Research Medicine.
 HILDA HEMPL HELLER, A.B., M.A., Ph.D., Fellow in Research Medicine.
 NELSON C. DAVIS, A.B., M.A., University of California Fellowship in Research Medicine.
 EMILY BEATRICE CARRIER, A.B., Student Fellow in Research Medicine.
 FRANK WARNE LEE, Student Fellow in Research Medicine.
 KARL F. PELKAN, Student Fellow in Research Medicine.
 FRANCIS P. WISNER, A.B., Student Fellow in Research Medicine.
 PHILIP H. PIERSON, M.D., Voluntary Assistant in Research Medicine.
 FLETCHER B. TAYLOR, A.B., M.S., M.D., Voluntary Assistant in Research Medicine.

Facilities for work in Research Medicine are available during the entire year for those who have had the necessary training. The experimental work is open to students of the second, third, and fourth years of the Medical School, as well as graduates in medicine and advanced students who have had proper training.

The fundamental value of such work for the student lies in the training in the method of research. In this manner the student is given an opportunity to help in working out some small research problem and an insight into medical research can be gained in no other way.

Candidates for elective work in the Research Laboratory are expected to devote at least the time equivalent to a double course in this subject.

201. Experimental Medicine.

WHIPPLE.

Students who have had sufficient training will be given opportunity to work on some problem related to the research work of the laboratory staff. This work will be carried on under the personal supervision of the members of the laboratory staff and the student in reality will be treated as an assistant in Research Medicine. (Hours to be arranged)

202. Research in Tropical Medicine.

WALKER, MEYER.

Problems in protozoology, bacteriology, zoology, and immunity.
 (Hours to be arranged)

203. Research on Applied Clinical Bacteriology and Immunology. MEYER.

This course is open to students or graduates who have taken Pathology 101 or equivalent.
 (Hours to be arranged)

MEDICINE*

HERBERT C. MOFFITT, B.S., M.D., LL.D., Professor of Medicine.
HERBERT W. ALLEN, B.S., M.D., Assistant Clinical Professor of Medicine.
GEORGE E. EBRIGHT, M.D., Assistant Clinical Professor of Medicine.
EUGENE S. KILGORE, B.S., M.D., Assistant Clinical Professor of Medicine.
JAMES L. WHITNEY, A.B., M.D., Assistant Clinical Professor of Medicine.
SAMUEL H. HURWITZ, A.B., M.A., M.D., Assistant Clinical Professor of Medicine.
RACHEL L. ASH, B.S., M.D., Assistant Clinical Professor of Medicine and Pediatrics.
LEWIS S. MACE, A.B., M.D., Instructor in Medicine.
LEROY H. BRIGGS, M.D., Instructor in Medicine.
JULE B. FRANKENHEIMER, B.S., M.D., Instructor in Medicine.
ELBRIDGE J. BEST, B.S., M.D., Instructor in Medicine.
HANS LISSER, A.B., M.D., Instructor in Medicine.
ERNEST H. FALCONER, C.M., M.D., Instructor in Medicine.
LOVELL LANGSTROTH, A.B., M.D., Instructor in Medicine.
ESTHER ROSENCRANTZ, A.B., M.D., Instructor in Medicine.
FRED H. KRUSE, B.S., M.D., Instructor in Medicine.
WILLIAM J. KERR, B.S., M.D., Instructor in Medicine.
EDWARD W. TWITCHELL, M.D., Instructor in Medicine.
HARRY I. WIEL, A.B., M.D., Instructor in Medicine.
JOHN M. REHFISCH, A.B., M.D., Instructor in Medicine.
JULIUS SHERMAN, M.D., Assistant in Medicine.
ERNEST S. DUBRAY, M.D., Assistant in Medicine.
INA M. RICHTER, A.B., M.D., Assistant in Medicine.
WILLIAM C. FREY, M.D., Assistant in Medicine.
C. A. ABRAMOPOULOS, M.D., Assistant in Medicine.
J. G. HARRINGTON, M.D., Assistant in Medicine.
EDMUND W. SIMMONS, M.D., Assistant in Medicine.
JOHN B. PARDOE, M.D., Assistant in Medicine.

Instruction is given both at the University Hospital and at the San Francisco Hospital.

SECOND YEAR.—Students begin their work in this department during the second half of the second year. Three general introductory courses, embracing instruction in clinical physiology, physical diagnosis and laboratory diagnosis correlate the pre-clinical sciences and clinical medicine. Stress is laid upon instruction in physical diagnosis and history taking and from the very beginning students are taught a uniform and standard technique in

*The Department of Medicine includes Neurology, Dermatology, and Homeopathic Medicine.

making and recording physical and laboratory examinations. This technique is utilized by the student throughout the remainder of this course, including his clinical clerkship and intern period. In the laboratory students will be instructed in the chemical and microscopical methods used in clinical medicine.

THIRD YEAR.—During the first half year a course in clinical pharmacology aims to instruct the students in prescription writing and in the fundamentals of therapeutics. A systematic course of lectures and demonstrations is given to the entire class in this same period. The class is also divided into small sections for work in the Out-Patient Department where instruction in history taking is continued. In the second half year the class is divided into sections for work in the wards and Out-Patient Department. Instruction in laboratory diagnosis and therapeutics is carried on by their direct application to patients. In this half year clinico-pathological conferences are begun. These are held once each week and students take an active part in the presentation of cases and discussion of necropsy findings. Throughout the year the entire class attend amphitheatre clinics once each week.

FOURTH YEAR.—Throughout the year the amphitheatre clinics and clinico-pathological conferences are continued. During the first half-year students are assigned to wards to act as clinical clerks. Except as indicated the work in this department during the last half of this year is elective.

SECOND YEAR

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|--|--------------------------------|
| 101. Physical Diagnosis and History Taking. | BRIGGS and the STAFF. |
| Second half-year, twice a week. | (160 hours) |
| 102. Laboratory Diagnosis. | REHFISCH and the STAFF. |
| Second half year, three times a week. | (96 hours) |
| 103. Clinical Physiology. | KILGORE. |
| Second half year, twice a week. | (32 hours) |

THIRD YEAR

- | | |
|--|-------------------------------|
| 104. Clinical Pharmacology. | KILGORE and the STAFF. |
| First half year, three times a week. | (48 hours) |
| 105. Clinical Medicine. | MOFFITT and the STAFF. |
| First half year, twice a week. | (32 hours) |
| 106A-106B. Amphitheatre Clinics. | MOFFITT. |
| First and second half years once a week. | (32 hours) |

- 107. Section Work.** KRUSE, BEST, LISSER, FALCONER.
First half year. (Each student 100 hours)
- 108A. Clinico-Pathological Conferences.** MOFFITT, RUSK.
Second half year, once a week. (8 hours)
(See Department of Bacteriology and Pathology.)
- 109. Section Work.** FALCONER.
Second half year. (Each student 40 hours)
- 110. Ward Work.** KERR.
Second half year. (Each student 64 hours)

FOURTH YEAR

- 106C-106D. Amphitheatre Clinics.** MOFFITT.
First and second half year, once a week. (32 hours)
- 108C-108D. Clinico-pathological Conferences.** MOFFITT, RUSK.
First and second half year, once a week. (16 hours)
(See Department of Pathology and Bacteriology.)
- 111. Section Work.** EBRIGHT, KERR.
Second half year. (Each student 24 hours)
For electives in this department see page 88.

CLINICAL NEUROLOGY AND PSYCHIATRY

MILTON B. LENNON, A.B., M.D., Assistant Clinical Professor of Neurology.
OLGA L. BRIDGMAN, Ph.D., M.D., Assistant Clinical Professor of Abnormal Psychology.

ROBERT L. RICHARDS, A.B., M.D., Lecturer in Psychiatry.
V. H. PODSTAT, M.D., Lecturer in Psychiatry.
RICHARD W. HARVEY, M.S., M.D., Instructor in Neurology.
EVA C. REID, M.D., Instructor in Psychiatry.
MABEL F. GIFFORD, Assistant in Neuropsychiatry.
HAROLD W. WRIGHT, M.D., Assistant in Psychiatry.
JEAN WALKER, A.B., Assistant in Abnormal Psychology.

The general plan of instruction in neurology follows the usual evolution of student teaching. The purely academic knowledge gained in the first year is gradually animated by clinical life and in the student there is developed the capacity to elicit symptoms, to measure their value and to draw logical conclusions from them.

THIRD YEAR.—In the lecture and demonstration course in neurology in the first half year, general symptomatology will be particularly emphasized. In the second half year the continuation of this course will have to do with the special aspects of the subject. During the second semester each student will spend forty hours in the clinic, where he will take histories, give demonstrations or his patients, look up clinical literature and in general be called upon to do more advanced work.

Psychiatry, in its general and fundamental aspects will be taken up, in the second half year. As is the custom, a rather full syllabus of each lecture will be provided. In the latter part of the course, the psycho-neuroses will be completely reviewed. Exercises in mental testing will be given. In short, the student will be provided with the basic principles which make diagnosis possible.

FOURTH YEAR.—In the first half of the fourth year, the course in psychiatry will be completed. Demonstrations of patients exemplifying the various aspects of mental disease will be the chief feature of this course. In the second half year work in this department is elective.

THIRD YEAR

101A-101B. Clinical Neurology; Lectures and Demonstrations.

LENNON, HARVEY.

First half year, twice a week; second half year, once a week. (48 hours)

102A. Psychiatry; Clinical Lectures.

BRIDGMAN, PODSTAT.

First half year; twice a week.

(32 hours)

103. Section Work.

LENNON and the STAFF.

First half year.

(Each student 40 hours)

FOURTH YEAR

102B. Psychiatry; Clinical Lectures.

RICHARDS, REID.

A continuation of course 102A.

First half year, once a week.

(16 hours)

For electives in this department see page 89.

DERMATOLOGY AND SYPHILOLOGY

HOWARD MORROW, M.D., Clinical Professor of Dermatology.

L. S. SCHMITT, B.S., M.D., Assistant Clinical Professor of Dermatology.

*A. W. LEE, M.D., Instructor in Dermatology.

BERTRAM STONE, M.D., Instructor in Dermatology.

HIRAM E. MILLER, A.B., M.D., Instructor in Dermatology.

†LAURENCE TAUSSIG, M.S., M.D., Assistant in Dermatology. (In charge Radium Emission Plant).

Instruction in this department is carried on during the third year.

*On leave 1920-21.

†On leave first half, 1920-21.

THIRD YEAR.—During the early part of the first half year, the student is taught to observe objective symptoms and describe them correctly. Radium and Roentgen therapy as applied to diseases of the skin are also discussed.

Throughout the second half-year, a systematic course will cover the histopathology, diagnosis and treatment of diseases of the skin. Students are taken to the Isolation Hospital where leprosy and the exanthemata are demonstrated. A series of lectures and recitations will cover syphilis in all its phases. The clinical and laboratory procedures used in its diagnosis and treatment will be discussed.

In this half year, students are divided into small groups for instruction in the wards and Out-Patient Department.

In the second half of the fourth year work in this department is elective.

THIRD YEAR

101A-101B. Clinical Lectures and Demonstrations.

MORROW, SCHMITT, TAUSSIG, MILLER.

First and second half years once a week.

(32 hours)

102. Section Work.

MORROW and the STAFF.

Second half year.

(Each student 40 hours)

For electives in this department, see page 89.

LEGAL MEDICINE

THIRD YEAR.—In this department students receive instruction in the legal aspects of medicine. In general the course covers the following subjects: (1) technique of medico-legal post-mortem examinations; (2) toxicology from the chemical and legal points of view; (3) biological aspects; (4) legal regulation of medical practice, rules of evidence, etc.; (5) relations of the medical graduate to the community. In order to set forth the various points of view of this subject, this course is given by several lecturers.

FOURTH YEAR

101. Lectures.

First half year, once a week.

(16 hours)

HOMEOPATHIC MEDICINE

WILLIAM BOERICKE, M.D., Clinical Professor of Homeopathic Materia Medica.

SUMNER A. HILL, M.D., Clinical Professor of Applied Homeopathic Therapeutics.

Instruction in this department is elective and continues throughout the second half of the second year, the third and fourth years.

SECOND YEAR.—A course of lectures, recitations and demonstrations in the second half year covers the essential characteristics of drugs, their sources, preparations and range of physiologic and therapeutic action according to the Laws of Similars.

THIRD YEAR.—Throughout the year, clinical lectures and demonstrations in Applied Homeopathy and its scientific treatment of disease will be given.

FOURTH YEAR.—The course offered by the Department of Medicine may be taken under the instructors in the Department of Homeopathic Medicine.

SECOND YEAR

101. Homeopathic Materia Medica.

BOERICKE.

Second half year, twice a week.

(32 hours)

THIRD YEAR

102A-102B. Applied Homeopathic Therapeutics.

HILL.

First and second half years, twice a week.

(64 hours)

PEDIATRICS

WILLIAM PALMER LUCAS, A.B., M.D., Professor of Pediatrics.

E. CHARLES FLEISCHNER, M.D., Assistant Clinical Professor of Pediatrics.

RACHEL L. ASH, B.S., M.D., Assistant Clinical Professor of Medicine and Pediatrics.

FLORENCE M. HOLSCLOW, A.B., M.D., Assistant Clinical Professor of Pediatrics.

OLGA L. BRIDGMAN, Ph.D., M.D., Assistant Clinical Professor of Abnormal Psychology.

R. LANGLEY PORTER, B.S., M.D., Lecturer in Pediatrics.

VIVIA BELLE APPLETON, A.B., M.D., Instructor in Pediatrics.

CLAIN F. GELSTON, M.S., M.D., Instructor in Pediatrics.

GEORGE D. LYMAN, A.B., M.D., Instructor in Pediatrics.

ALFRED E. MEYERS, A.B., M.D., Instructor in Pediatrics.

ELLEN S. STADTMULLER, A.B., M.D., Instructor in Pediatrics.

MABEL F. GIFFORD, Assistant in Neuropsychiatry.

JEAN WALKER, A.B., Assistant in Abnormal Psychology.

BRADFORD F. DEARING, M.D., Assistant in Pediatrics.

FRIEDA L. KRUSE, M.D., Assistant in Pediatrics.

EDITH BRONSON, A.B., M.D., Assistant in Pediatrics.

L. J. SCHERMERHORN, M.D., Assistant in Pediatrics.

ENOS P. COOK, B.S., M.D., Assistant in Pediatrics.

H. R. GREEN, M.A., M.D., Assistant in Pediatrics.

WILLIAM E. CARTER, M.D., Assistant in Pediatrics.

MENDEL L. COHN, B.S., M.D., Assistant in Pediatrics.

MARTHA R. JONES, Ph.D., Assistant in Pediatrics.

The work in this department extends throughout the third year and the first half of the fourth year. The course consists of lectures, clinical exercises, and laboratory work.

The teaching material of the department is drawn from the following sources:

(1) The nursery and children's wards of the University Hospital, which give opportunities for studying normal breast feeding, the problems entering into the first two weeks of life and the diseases of infancy and childhood admitted into the general children's wards. (2) The Out-Patient Department of the University Hospital offers special opportunities for following normal feeding cases in the special feeding clinic and various ambulatory diseases of infancy and childhood only to be found in a large children's clinic. (The Children's Out-Patient Department had a total of 7,038 visits during the last year, which gave a large amount of most interesting material.) Home

visits are made where the home conditions are of importance or the patient's condition indicates it. (3) The medical wards of the Children's Hospital. (4) The children's ward of the San Francisco Hospital during the second half-year. (5) The Isolation Hospital, where every variety of contagious disease can be demonstrated. (6) Those desiring and qualified can take special work at various institutions, such as the Juvenile Court, the State Home for Feeble Minded at Eldridge, and other institutions doing child-welfare work.

During the year a series of lectures will be given on subjects closely related to pediatrics and child-welfare work by specialists in their particular fields.

THIRD YEAR.—The work is divided into lectures and clinical exercises dealing with prenatal studies, normal development of the infant, normal breast feeding, artificial feeding, the physiology and metabolism of infancy and childhood. The various diseases of infancy and childhood are demonstrated as far as the clinical material will permit. Laboratory exercises relating to physiology of digestion and preparation of milk formulas are taken up, either during the required or elective courses. Special attention is given to the psychological, sociological, and preventive problems of infancy and childhood. The problems of the defective, delinquent, and psychopathic child and of adolescence are studied in conjunction with the departments of Psychology and Social Economics. Through close co-operation with these departments special lines of work are offered both in psychology and social economics. These departments furnish lecturers and assistants on special topics relating to childhood. Through co-operation with child-welfare institutions of the state and city opportunity to study these institutions is given.

FOURTH YEAR.—During the first half-year classes are divided into small sections for work in the Our-Patient Department and wards of the University Hospital, and in Children's Hospital. During the last half year work in this department is elective.

THIRD YEAR

101. Lectures, Recitations, Laboratory Work, and Clinical Demonstrations.

LUCAS and the STAFF.

First half year, twice a week.

(64 hours)

102. Section Work.

LUCAS and the STAFF.

Second half-year.

(Each student, 40 hours)

FOURTH YEAR

103. Ward Work.

LUCAS and the STAFF.

First half year.

(Each student, 24 hours)

For electives in this department see page 89.

SURGERY*

WALLACE I. TERRY, B.S., M.D., Professor of Surgery.
HAROLD BRUNN, M.D., Assistant Clinical Professor of Surgery.
SAXTON T. POPE, M.D., Assistant Clinical Professor of Surgery.
ALANSON WEEKS, M.D., Assistant Clinical Professor of Surgery.
EMMA K. WILLITS, M.D., Assistant Clinical Professor of Surgery.
HOWARD C. NAFFZIGER, M.S., M.D., Assistant Clinical Professor of Surgery.
HERBERT S. THOMSON, B.S., M.D., Instructor in Surgery.
EDWIN I. BARTLETT, A.B., M.D., Instructor in Surgery.
CARL L. HOAG, M.S., M.D., Instructor in Surgery.
†EDNA L. BARNEY, M.S., M.D., Instructor in Surgery.
SOL HYMAN, B.S., M.D., Instructor in Surgery.
LAWRENCE A. DRAPER, M.D., Instructor in Surgery.
GUIDO E. CAGLIERI, B.S., M.D., Instructor in Surgery.
JOHN H. WOOLSEY, M.S., M.D., Instructor in Surgery.
ERNEST W. CLEARY, M.D., Instructor in Surgery.
ALANSON R. KILGORE, B.S., M.D., Instructor in Surgery.
MONTAGUE S. WOOLF, B.S., M.A., M.D., Instructor in Surgery.
EDMUND J. HORGAN, M.S., M.D., Instructor in Surgery.
GEORGE K. RHODES, B.S., M.D., Instructor in Surgery.
ROBERT S. SHERMAN, M.S., M.D., Assistant in Surgery.
JOSEPH VISALLI, M.D., Assistant in Surgery.
EDGAR L. GILCREEST, A.B., M.D., Assistant in Surgery.
HENRY H. SEARLS, B.S., M.D., Assistant in Surgery.
MYRON M. BOOTH, A.B., M.D., Assistant in Surgery.
ANTHONY B. DIEPENBROCK, A.B., M.D., Assistant in Surgery.
CHARLES B. FOWLER, A.B., M.D., Assistant in Surgery.
OSCAR K. MOHS, A.B., M.D., Assistant in Surgery.

SECOND YEAR.—Instruction begins in the second half of the second year. This part of the course is aimed to give the student the basic principles of surgery and to teach him surgical methods. The work of this half-year is carried on at the University and San Francisco Hospitals.

THIRD YEAR.—During this year systematic courses of lectures and recitations on the general principles of surgery are begun. In the first half-year a course of lectures and laboratory exercises deals with the physiology of respiration and circulation as related to surgery, the study of shock and the effects of anesthetics. In the same period two laboratory periods are devoted to a course covering the fundamentals of Surgical Pathology. The class is divided into sections for instruction in surgical technique, bandaging and

*The Department of Surgery includes Orthopedic Surgery, Urology, Laryngology, Ophthalmology, Roentgenology, and Anaesthesia.

†On leave, 1920-21.

minor surgery. During the second half-year one period per week is devoted to neuro-surgery. During this period the class is divided into sections for work in the wards.

Throughout the year amphitheatre clinics are attended by the whole class.

FOURTH YEAR.—Amphitheatre clinics are continued throughout this year. During the first half-year, the class is divided into sections and students will act as clinical clerks in the wards and Out-Patient Department. In the second half-year, the courses offered by this department are elective.

SECOND YEAR

- | | |
|---------------------------------|------------|
| 101. Elementary Surgery. | WOOLF. |
| Second half-year, twice a week. | (32 hours) |

THIRD YEAR

- | | |
|---|--------------------------|
| 102. Surgical Pathology. | BARTLETT. |
| First half-year, twice a week. | (64 hours) |
| 103. Surgical Physiology. | WOOLSEY. |
| First half-year. | (Each student, 36 hours) |
| 104A-104B. Lectures and Demonstrations. | POPE. |
| First and second half-years, once a week. | (32 hours) |
| 105A-105B. Amphitheatre Clinics. | TERRY and the STAFF. |
| First and second half-years, once a week. | (32 hours) |
| 106. Section Work. | The STAFF. |
| First half-year. | (Each student, 40 hours) |
| 107. Neuro-Surgery; Lectures and Demonstrations. | NAFFZIGER. |
| Second half-year, once a week. | (16 hours) |
| 108. Surgical Wards. | The STAFF. |
| Second half-year. | (Each student, 64 hours) |

FOURTH YEAR

- | | |
|---|--------------------------|
| 105C-105D. Amphitheatre Clinics. | TERRY and the STAFF. |
| First and second half-years, once a week. | (32 hours) |
| 109. Section Work. | The STAFF. |
| Second half-year. | (Each student, 54 hours) |
| 110. Surgical Wards. | The STAFF. |
| Second half-year. | (Each student, 24 hours) |
| For electives in this department see page 90. | |

ORTHOPEDIC SURGERY

WALTER I. BALDWIN, B.S., M.D., Assistant Clinical Professor of Orthopedic Surgery.

JAMES T. WATKINS, M.D., Lecturer in Orthopedic Surgery.

HOWARD H. MARKEL, A.B., M.D., Instructor in Orthopedic Surgery.

ARTHUR L. FISHER, A.B., M.D., Instructor in Orthopedic Surgery.

GEORGE J. MCCHESENEY, A.B., M.D., Instructor in Orthopedic Surgery.

THOMAS R. BARNEY, M.D., Assistant in Orthopedic Surgery.

RINALDO P. GIOVANETTI, M.D., Assistant in Orthopedic Surgery.

EDWARD C. BULL, B.S., M.D., Assistant in Orthopedic Surgery.

KATE GOMPERTZ, B.S., M.D., Assistant in Orthopedic Surgery.

THOMAS A. STODDARD, B.S., M.D., Assistant in Orthopedic Surgery.

LIONEL D. PRINCE, B.S., M.D., Assistant in Orthopedic Surgery.

HAROLD H. HITCHCOCK, A.B., M.D., Assistant in Orthopedic Surgery.

Instruction in this department is carried on in the last half of the third year and first half of the fourth year.

THIRD YEAR.—In the second half of the year, instruction consists of lectures and clinical demonstrations.

FOURTH YEAR.—In the first half of this year, a continuation of the lectures and demonstrations covers fractures, dislocations and joint injuries. The class is also divided into sections for work in the wards and out-patient department of the University Hospital, the Children's Hospital and Hahnemann Hospital. In the second half-year work in this department is elective.

THIRD YEAR**101A. Lectures and Demonstrations.**

BALDWIN.

Second half-year, once a week.

(16 hours)

FOURTH YEAR**101B. Lectures and Demonstrations.**

BALDWIN.

First half-year, once a week.

(16 hours)

102. Section Work.

BALDWIN and the STAFF.

First half-year.

(Each student, 54 hours)

For electives in this department, see page 90.

LARYNGOLOGY, OTOTOLOGY AND RHINOLOGY

ALBERT J. HOUSTON, B.L., M.D., Assistant Clinical Professor of Otorhinolaryngology.

FREDERICK C. LEWITT, B.S., M.D., Instructor in Otorhinolaryngology.

ABEL W. JOHNSON, A.M., M.D., Instructor in Otorhinolaryngology.

ANNA FLYNN, M.D., Instructor in Otorhinolaryngology.

EDMUND D. SHORTLIDGE, M.D., Instructor in Otorhinolaryngology.

JAMES H. McCLELLAND, M.D., Instructor in Otorhinolaryngology.

WALLACE B. SMITH, M.D., Instructor in Otorhinolaryngology.

FRANK S. BAXTER, B.S., M.S., M.D., Assistant in Otorhinolaryngology.

FRED W. LORING, M.D., Assistant in Otorhinolaryngology.

ROBERT C. MARTIN, A.B., M.D., Assistant in Otorhinolaryngology.

HERBERT J. COHN, M.D., Assistant in Otorhinolaryngology.

ROBERT K. HUTCHINGS, M.D., Assistant in Otorhinolaryngology.

The required work of this department is given in the second half of the third year and the first half of the fourth year.

THIRD YEAR.—During the second half-year, instruction is carried on by means of lectures and demonstrations.

FOURTH YEAR.—The work in the first half of the fourth year is practical and is carried on in association with regular clinics in the Out-Patient Department, University Hospital. The use of the various instruments employed is taught. The work in the second half of the fourth year is elective.

THIRD YEAR

101. Lectures and Demonstrations.

HOUSTON.

Second half-year, once a week.

(16 hours)

FOURTH YEAR

102. Section Work.

LEWITT, JOHNSON,

First half-year.

(Each student, 54 hours)

For electives in this department see page 91.

OPHTHALMOLOGY

WALTER SCOTT FRANKLIN, M.D., Assistant Clinical Professor of Ophthalmology.

WILLIAM F. BLAKE, A.B., M.D., Instructor in Ophthalmology.

EDWARD F. GLASER, M.D., Instructor in Ophthalmology.

FREDERICK C. CORDS, A.B., M.D., Assistant in Ophthalmology.

Instruction in this department is given in the second half of the third and first half of the fourth years.

THIRD YEAR.—In the second half of this term a systematic course of lectures and recitations is given, covering the more common diseases of the lids and globes.

FOURTH YEAR.—In the first half of the fourth year the class is divided into sections for work in the Out-Patient Department. Work in this department in the second half of the year is elective.

THIRD YEAR

101. Lectures and Demonstrations.

FRANKLIN.

Second half-year, once a week.

(16 hours)

FOURTH YEAR.

102. Section Work.

FRANKLIN and the STAFF.

First half-year.

(Each student, 54 hours)

For electives in this department see page 91.

UROLOGY

FRANK HINMAN, A.B., M.D., Assistant-Clinical Professor of Urology.

WILLIAM P. WILLARD, M.D., Instructor in Urology.

LIONEL P. PLAYER, M.D., Instructor in Urology.

CHARLES P. L. MATHE, M.D., Instructor in Urology.

JOHN M. McDONALD, M.D., Instructor in Urology.

HARRY PARTRIDGE, M.D., Assistant in Urology.

SIDNEY OLSEN, A.B., M.D., Assistant in Urology.

HENRY A. R. KREUTZMANN, M.D., Assistant in Urology.

ARTHUR E. BELT, A.B., M.S., M.D., Assistant in Urology.

F. A. CUMMINS, M.D., Voluntary Assistant in Urology.

Instruction in this department is begun in the last half of the third year and is continued in the fourth year.

THIRD YEAR.—During the last half of the year a course of lectures and recitations deals with the anatomy, physiology and pathology of the genito-urinary tract.

FOURTH YEAR.—In the first half of this year practical instruction is given in the Out-Patient Department. Work in the second half of the fourth year is elective.

THIRD YEAR

101. Lectures and Demonstrations.

HINMAN.

Second half-year, once a week.

(16 hours)

FOURTH YEAR

102. Section Work.

HINMAN and the STAFF.

First half-year.

(Each student, 54 hours)

For electives in this department see page 91.

ROENTGENOLOGY

HOWARD E. RUGGLES, A.B., M.D., Assistant Clinical Professor of Roentgenology.

LLOYD BRYAN, B.S., M.D., Instructor in Roentgenology.

C. O. TUFTS, Instructor in Dental Roentgenology.

ELIZABETH SCHULZE, B.S., M.D., Instructor in Roentgenology.

O. S. COOK, B.S., M.D., Instructor in Roentgenology.

The required work in this department is given in the second half of the third year and consists of lectures and demonstration of plates. Elective work is offered in the second half of the fourth year.

THIRD YEAR

101. Lectures and Demonstrations.

RUGGLES.

Second half-year, twice a week.

(32 hours)

For electives in this department see page 91.

ANAESTHESIA

MARY E. BOTSFORD, M.D., Assistant Clinical Professor of Anaesthesia.

MARY KAVANAGH, M.D., Assistant in Anesthesia.

EMMA L. BUCKLEY, M.D., Assistant in Anaesthesia.

The work in this department is entirely elective and is given in the second half of the fourth year.

For electives in this department see page 91.

OBSTETRICS AND GYNECOLOGY

FRANK W. LYNCH, A.B., M.D., Professor of Obstetrics and Gynecology.

WILLIAM G. MOORE, M.D., Instructor in Obstetrics and Gynecology.

LOUIS I. BREITSTEIN, B.S., M.D., Instructor in Obstetrics and Gynecology.

ELIZABETH KEYS, M.D., Instructor in Obstetrics and Gynecology.

ALICE F. MAXWELL, B.S., M.D., Instructor in Obstetrics and Gynecology.

ARMSTRONG TAYLOR, M.D., Instructor in Obstetrics and Gynecology.

FRANKLIN H. COOKINGHAM, A.B., M.D., Assistant in Obstetrics and Gynecology.

MARGARET SCHULZE, M.S., M.D., Assistant in Obstetrics and Gynecology.

ALSON A. SHUFELT, M.D., Assistant in Obstetrics and Gynecology.

PHILIP H. ARNOT, A.B., M.D., Assistant in Obstetrics and Gynecology.

MERVYN F. FRANDY, A.B., M.D., Assistant in Obstetrics and Gynecology.

Instruction in this department is given to students of the third and fourth years. The work of the third year and first half of the fourth year is obligatory. The required courses include lectures, recitations, laboratory demonstrations, and practical work in the wards and Out-Patient Department. Each student must attend at least twelve maternity cases.

THIRD YEAR.—The work of the first half of the third year is concerned chiefly with normal pregnancy, labor and the puerperium. In the second half-year, the courses deal on one hand with obstetrical complications and on the other hand with gynecologic disease.

FOURTH YEAR.—Courses are given in the wards and operating rooms of the University and San Francisco Hospitals. Students follow cases from the dispensary to the operating room and study their convalescence in the wards. Fundamentals of treatment are taught from typical cases. Elective courses are offered in the second half of the fourth year.

THIRD YEAR**101A-101B. Lectures and Recitations.**

LYNCH, MAXWELL.

First half-year, twice a week; second half-year, three times a week.

(80 hours)

FOURTH YEAR**102. Gynecologic Pathology.**

MAXWELL and Assistants.

First half-year, once a week.

(32 hours)

103. Gynecology—Lectures and Recitations.

LYNCH.

First half-year, once a week.

(16 hours)

104. Section Work.

The STAFF.

First half-year.

(Each student, 54 hours)

105. Ward Work.

The STAFF.

First half-year.

(Each student, 24 hours)

For electives in this department see page 91.

FOURTH YEAR ELECTIVES

The last half of the fourth year has been set aside for electives. A **minimum of 560 hours is demanded**. Electives are arranged as double courses and single courses. A **double course** occupies the entire day for one month or forenoons or afternoons for two months, and has a value of 140 hours. A **single course** occupies a half day for one month and has a value of 70 hours.

Two double courses **must** be selected from among the courses offered in General Medicine, Pediatrics, General Surgery or Obstetrics and Gynecology.

Students who desire to specialize in any major branch of medical study may elect additional courses offered in a given subject, but no student will be allowed to devote his whole elective period to one subject without special permission of the Advisory Board of the Faculty and the consent of the head of the department concerned.

The final choice of electives must be left at the Secretary's office on or before November 15, 1920. No changes will be allowed after the final arrangement is made. The time allotted for electives, together with the schedule thereof, must be determined by the Secretary of the Medical School.

The Faculty reserves the right to make any changes deemed necessary in the selection and arrangement of the courses chosen by the student. This selection will be based upon the character of the work accomplished by the student during the required courses of the curriculum.

Examinations will be held at the end of each course, for the most part practical, and the grade assigned to each student will be sent to the Secretary's office as soon as the course has terminated.

The value of the courses, as stated above, when elected in anatomy, physiology, biochemistry, pathology and bacteriology, or research medicine, must depend on arrangement with the heads of the departments concerned.

ANATOMY

209. Human Embryology.

EVANS.

Opportunity is offered for the study of specific problems in human embryology. The collections of both human and comparative embryological material are constantly being augmented. The elective is offered only to students familiar with vertebrate embryology.

(Hours to be arranged)

210. Physiological Anatomy of Reproduction.

EVANS.

Informal conferences and demonstrations. The oestrous cycle, implantation, comparative placentation, etc. Outside reading required. One hour weekly.

(Hours to be arranged)

211. Haematology.**EMMEL.**

An intensive study of the blood and blood forming organs and their relation to current haematological problems. The subject includes the finer structure of the nuclear and cytoplasmic elements and their role in physiological reactions of the blood; cytomorphism and histogenesis as correlated with specialization of function; origin and localization in embryonic development; proliferation, regeneration and quantitative regulation with reference to normal and abnormal activities in the adult organism.
(Hours to be arranged)

212. Experimental Embryology.**SMITH.**

Conferences and original work by the experimental method chiefly with amphibian material on problems of developmental mechanics.
(Hours to be arranged)

213. Original Investigation.**EVANS** and other members of the Staff.

Students and others who are prepared to undertake research in any of the anatomical sciences will be given facilities and encouragement by members of the staff.
(Hours optional)

214. Seminar.

Topics will be discussed by the staff and those electing the course. For the year 1920-21 topics will be chosen from the field of human and comparative embryology.
(Hours to be arranged)

PHYSIOLOGY**103A-103B. Special Problems.****The STAFF.**

Prerequisites; Physiology 101 and 102. (Hours and credits to be arranged)

201. Research in Physiology.**The STAFF.**

(Hours and credits to be arranged)

202. Journal Club.**The STAFF.**

Hours to be announced.

(No credit)

BIOCHEMISTRY AND PHARMACOLOGY**110. Advanced Biochemistry.** **BLOOR, SCHMIDT, SUNDSTROEM, FOSTER.**

A course of laboratory work and reading intended to familiarize the student with the more advanced methods of biochemical investigation and literature. Admission is limited to those students who have done work equivalent to a grade of 2 or better in course 101.

The course may be taken at any time. Credit will be allowed according to the amount of work done and will ordinarily not amount to more than 4 units.

210. Research in Biochemistry.

BLOOR, SCHMIDT, SUNDSTROEM.

Open to qualified students who have the necessary time at their disposal. Subject, credit and time to be arranged.

212. Seminar in Biochemistry.

Topics will be discussed by the staff and those electing the course.

PATHOLOGY AND BACTERIOLOGY

201. Research; Problems of Bacteriology, Infection, Immunity, and Experimental Pathology.

The STAFF.

Offered in Berkeley.

Either half-year.

(Hours to be arranged)

202. Research; Neuropathology.

RUSK.

University Hospital.

Either half-year.

(Hours to be arranged)

203. Advanced Morbid Anatomy and Histopathology.

RUSK and Assistants.

An elective course for fourth-year and graduate students in medicine, comprising autopsy technic and the working up of tissues and cultures resulting from post-mortem examination. University Hospital.

Either half-year.

(Hours to be arranged)

PREVENTIVE MEDICINE AND HYGIENE

201. Preventive Medicine.

By arrangement with the State Board of Health a limited number of properly qualified students will be given an opportunity to work as volunteer assistants in the Bureau of Communicable Diseases. The nature of the work will depend upon the kind of investigations which are being carried on at the time of the service. The work will include both laboratory and field service. A problem will be assigned to the student and a written report will be required. The problem will be one of the following:

(a) A sanitary survey of a city or town.

(b) The field and laboratory investigation of a public-health problem.

(c) The investigation and control of an epidemic.

To derive the best benefit from the course the student should be prepared to pay traveling expenses.

Double course.

RESEARCH MEDICINE**201. Experimental Medicine.****WHIPPLE.**

Students who have had sufficient training will be given opportunity to work on some problem related to the research work of the laboratory staff. This work will be carried on under the personal supervision of the members of the laboratory staff and the student in reality will be treated as a voluntary assistant in Research Medicine.

(Hours to be arranged)

202. Research in Tropical Medicine.**WALKER, MEYER.**

Problems in protozoology, bacteriology, zoology, and immunity.

(Hours to be arranged)

203. Research on Applied Clinical Bacteriology and Immunology. MEYER.

This course is open to students or graduates who have taken Pathology 101 or equivalent.

(Hours to be arranged)

MEDICINE**201. Clinical Medicine (U. C. H.).**

In the wards of the University Hospital opportunity will be offered four students to serve as clinical clerks. Their work will be under the supervision of members of the staff.

Double course, all day.

202. Clinical Medicine (S. F. H.).

Students will act as clinical clerks in the wards of the San Francisco Hospital, under the supervision of a member of the department.

Single or double course.

203. Clinical Medicine (O. P. D.).

Students will act as clinical clerks in the Out-Patient Department of the University Hospital.

Single or double course.

204. Cardiovascular Diseases.

This course is intended for students who are especially interested in this phase of medicine. The student will review anatomy, physiology and pathology of the circulatory system and will be instructed in the methods of precision used in the diagnosis and treatment of cardiovascular diseases. Clinical material will be available for careful study.

Double course, afternoons only. Limited to four students.

205. Infectious Diseases. Exanthemata.

In this course emphasis will be laid on the differential diagnosis and treatment of the exanthemata at the San Francisco Hospital.

Double course, all day. Limited to two students each month.

NEUROLOGY AND PSYCHIATRY

201. Neurology.

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

202. Psychiatry.

Instruction will be given in history taking, mental examination and psychoanalysis, the correlation of physical signs and laboratory findings with the manifestations of mental disorders, the etiology, symptomatology, diagnosis and treatment of mental diseases.

Single or double course.

DERMATOLOGY

201. Dermatology.

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants. Opportunity is also afforded for the preparation and examination of biopsies and for the study of the bacteriology of the skin.

Single or double course.

PEDIATRICS

201. Pediatrics.

An elective course in pediatrics will be open to fourth-year students in the wards of the University and Children's hospitals and in the Out-Patient Department of the University Hospital. This course consists of case teaching, in which students will be expected to do all the work in connection with the patients assigned them. This includes doing the laboratory work, looking up all the available literature and keeping bedside records. Ward talks and demonstrations in the laboratory and special case-histories covering conditions not observed in the ward during the time the course is in progress will be given. Students electing double courses may be allowed to take special problems or to do work in special institutions. Not more than four students may elect work in the same institution during any one period. Those electing double courses will be given the preference.

Single or double course.

SURGERY**201. Surgery (U. C. H.).**

The students will act as clinical clerks in the wards and Out-Patient Department of the University Hospital. They will also assist in operations or administer anesthetics under the supervision of the members of the department. The number of students electing this course will be limited. This course must be elected for the entire day.

Double course.

202. Surgery (S. F. H.).

The students will act as clinical clerks in the wards of the San Francisco Hospital. They will also assist in operations or administer anesthetics under the supervision of the members of the department. The number of students electing this course will be limited.

Single or double course.

203. Neuro-Surgery.

The students will devote their time primarily to the physiology and diagnosis of surgical diseases of the nervous system, and to work in surgery of the peripheral and central nervous system. When not so occupied, students will act as clinical clerks in the wards of the University or San Francisco Hospital.

Single or double course.

204. Surgical Pathology.

Lectures and demonstrations with an intensive study in subjects to be assigned.

Single course.

205. Surgical Anatomy.

This course will consist of recitations, demonstrations and actual dissection on the human body and the performing of operations. The number of students electing this course will be limited. This course may be elected for a single or double course, the latter being afternoons for two successive months.

Single or double course.

206. Industrial Surgery.

Students are assigned to the Hahnemann Hospital for work on industrial patients. A staff selected from all departments supervises the study and investigation of these patients.

Single or double course.

ORTHOPEDIC SURGERY**201. Orthopedic Surgery.**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

201. Urology. **UROLOGY**

This course consists of an advanced study of kidney diseases, including renal diagnosis and functional tests. Students also serve as assistants in the Out-Patient Department of the University Hospital and at the San Francisco Hospital, particular attention being paid to cystoscopy and ureteral catheterization.

Single or double course.

202. Research in Urology. (Hours and subjects to be arranged)

201. Ophthalmology. **OPHTHALMOLOGY**

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

LARYNGOLOGY, OTOTOLOGY AND RHINOLOGY

201. Laryngology, Otology and Rhinology.

This course consists of advanced work in the Out-Patient Department, the students acting as clinical assistants.

Single or double course.

201. Roentgenology. **ROENTGENOLOGY**

Students will be assigned to assist in technical work under the direction of the Staff.

Single or double course.

201. Anaesthesia. **ANAESTHESIA**

This course consists of lectures, demonstrations, and actual experience as assistants by the students.

Single course.

OBSTETRICS AND GYNECOLOGY

201. Obstetrics and Gynecology (U. C. H.).

A practical course including work in the Out-Patient Department, the wards, and the operating room. Students will act as clinical clerks in the wards and as assistants in the operating room.

Single or double course.

202. Obstetrics and Gynecology (S. F. H.).

A practical course including work at the San Francisco Hospital. Students will act as clinical clerks in the wards and as assistants in the operating room.

Single or double course.

SCHEDULES AND LIST OF STUDENTS

SCHEDULES, 1920-21

**FIRST YEAR
FIRST HALF-YEAR**

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9						
9-10	HISTOLOGY Evans Scott	ANATOMY Emmel Moody Smith	HISTOLOGY Evans Scott	ANATOMY Emmel Moody Smith	HISTOLOGY Evans Scott	ELECTIVES
10-11						
11-12						
1-2						
2-3	ANATOMY Emmel Moody Smith	ANATOMY Emmel Moody Smith	ANATOMY Emmel Moody Smith	ANATOMY Emmel Moody Smith	ANATOMY Emmel Moody Smith	
3-4						
4-5						

FIRST YEAR
SECOND HALF-YEAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9					PHYSIOLOGY Lectures Staff	
9-10					BIOCHEMISTRY Lectures Staff	
10-11	PHYSIOLOGY Staff	PHYSIOLOGY Staff	PHYSIOLOGY Staff	PHYSIOLOGY Staff	PHYSIOLOGY Lectures Staff	ELECTIVES
11-12					ELECTIVES	
1-2						
2-3						
3-4	BIOCHEMISTRY Staff	BIOCHEMISTRY Staff	BIOCHEMISTRY Staff	BIOCHEMISTRY Staff	ELECTIVES	
4-5						

SECOND YEAR
FIRST HALF-YEAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	Aug. 17-Oct. 2 ELECTIVES	Aug. 17-Oct. 2 NEUROLOGY Smith	Aug. 17-Oct. 2 ELECTIVES	Aug. 17-Oct. 2 NEUROLOGY Smith		Aug. 17-Oct. 2 NEUROLOGY Smith
9-10	Oct. 4-Nov. 27 Sect. I TOPOGRAPHICAL ANATOMY Moody	Oct. 4-Nov. 27 Sect. II TOPOGRAPHICAL ANATOMY Moody	Oct. 4-Nov. 27 Sect. I TOPOGRAPHICAL ANATOMY Moody	Oct. 4-Nov. 27 Sect. II TOPOGRAPHICAL ANATOMY Moody	ELECTIVES	Oct. 4-Nov. 27 ELECTIVES
10-11	Sect. II ELECTIVES	Sect. I ELECTIVES	Sect. II ELECTIVES	Sect. I ELECTIVES		
11-12						
1-2						
2-3	BACTERIOLOGY AND IMMUNOLOGY Gay, Hall	BACTERIOLOGY AND IMMUNOLOGY Gay, Hall	BACTERIOLOGY AND IMMUNOLOGY Gay, Hall	BACTERIOLOGY AND IMMUNOLOGY Gay, Hall	BACTERIOLOGY AND IMMUNOLOGY Gay, Hall	
3-4						
4-5						

SECOND YEAR

SECOND HALF-YEAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
8-9	PHYSICAL DIAGNOSIS <i>Briggs</i> S. F. H.	SURGERY Lectures and Recitations <i>Wood</i> CLINICAL PHYSIOLOGY Lectures <i>Kilgore</i>	LABORATORY DIAGNOSIS <i>Rehlfisch</i> M. S. Bld.		PHYSICAL DIAGNOSIS <i>Briggs</i> S. F. H.	PHARMACOLOGY Laboratory <i>Clark</i> Berkeley	
9-10			PHARMACOLOGY AND MATERIA MEDICA Seminar	SURGERY Lectures and Recitations <i>Wood</i> CLINICAL PHYSIOLOGY Lectures <i>Kilgore</i>			
10-11			HOMEOPATHIC MATERIA MEDICA (Elective) <i>Boerricke</i>	PHARMACOLOGY AND MATERIA MEDICA Lectures <i>Clark</i> M. S. Bld.			
11-12	PHYSICAL DIAGNOSIS <i>Briggs</i> S. F. H.	SURGERY Lectures and Recitations <i>Wood</i> CLINICAL PHYSIOLOGY Lectures <i>Kilgore</i>	LABORATORY DIAGNOSIS <i>Rehlfisch</i> M. S. Bld.		PHYSICAL DIAGNOSIS <i>Briggs</i> S. F. H.	PHARMACOLOGY Laboratory <i>Clark</i> Berkeley	
12-1			PHARMACOLOGY AND MATERIA MEDICA Seminar	SURGERY Lectures and Recitations <i>Wood</i> CLINICAL PHYSIOLOGY Lectures <i>Kilgore</i>			
12-2			HOMEOPATHIC MATERIA MEDICA (Elective) <i>Boerricke</i>	PHARMACOLOGY AND MATERIA MEDICA Lectures <i>Clark</i> M. S. Bld.			
2-3	MORBID ANATOMY AND HISTOPATHOLOGY <i>Rusk</i> M. S. Bld.	HOMEOPATHIC MATERIA MEDICA (Elective) <i>Boerricke</i>	HOMEOPATHIC MATERIA MEDICA (Elective) <i>Boerricke</i>	MORBID ANATOMY AND HISTOPATHOLOGY <i>Rusk</i> M. S. Bld.			
3-4							
4-5							

THIRD YEAR
FIRST HALF-YEAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	SURGICAL PATHOLOGY <i>Barlett</i> M. S. Bld.	DERMATOLOGY Lectures and Demonstrations <i>Morrow</i> CLINICAL PHARMACOLOGY Lectures <i>Kilgore</i>	SURGICAL PATHOLOGY <i>Barlett</i> M. S. Bld.	NEUROLOGY Lectures and Demonstrations <i>Lennon</i> SURGERY Lectures and Demonstrations <i>Pope</i>		NEUROLOGY Lectures and Demonstrations <i>Lennon</i> SURGERY Amphitheater Clinics <i>Terry</i>
9-10					CLINICAL PHARMACOLOGY Lectures <i>Kilgore</i>	
10-11						MEDICINE Amphitheater Clinics <i>Moffitt</i>
11-12						CLINICAL PHARMACOLOGY Lectures <i>Kilgore</i>
12-1	SURGICAL PHYSIOLOGY <i>Woolsey</i>	MEDICINE Lectures and Demonstrations <i>Moffitt</i>	OBSTETRICS Lectures and Recitations <i>Lynch</i>	MEDICINE Lectures and Demonstrations <i>Moffitt</i>	OBSTETRICS Lectures and Recitations <i>Lynch</i>	
2-3	PEDIATRICS Lectures and Demonstrations <i>Lucas</i>	MORBID ANATOMY <i>Rusk</i> M. S. Bld.		PEDIATRICS Lectures and Demonstrations <i>Lucas</i>	MORBID ANATOMY <i>Rusk</i> M. S. Bld.	
3-4	APPLIED HOMEOPATHIC THERAPEUTICS <i>Hill</i> (Elective)			APPLIED HOMEOPATHIC THERAPEUTICS <i>Hill</i> (Elective)		
4-5						

SECTION WORK
MEDICINE AND SURGERY
(see section schedule)

THIRD YEAR

SECOND HALF-YEAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9	USOLOGY Lectures and Demonstrations <i>Hinman</i>	DERMATOLOGY Lectures and Demonstrations <i>Merrow</i>	OPHTHALMOLOGY Lectures and Demonstrations <i>Franklin</i>	ORTHOPEDIC SURGERY Lectures and Demonstrations <i>Baldwin</i>	OTOLOGY Lectures and Demonstrations <i>Houston</i>	NEUROLOGY Lectures and Demonstrations <i>Lennox</i>
9-10	ROENTGENOLOGY Lectures and Demonstrations <i>Ruggles</i>	PREVENTIVE MEDICINE AND HYGIENE	ROENTGENOLOGY Lectures and Demonstrations <i>Ruggles</i>	SURGERY Lectures and Demonstrations <i>Pope</i>	PREVENTIVE MEDICINE AND HYGIENE	SURGERY Amphitheater Clinics <i>Terry</i>
10-11	SECTION WORK MEDICINE, PEDIATRICS, DERMATOLOGY AND NEUROLOGY (see section schedule)					
11-12						
12-1	OBSTETRICS Lectures and Recitations <i>Lynch</i>	PSYCHIATRY Lectures and Demonstrations <i>Podata</i>	OBSTETRICS Lectures and Recitations <i>Lynch</i>	NEURO-SURGERY Lectures and Demonstrations <i>Naffziger</i>	GYNCOLOGY Lectures and Recitations <i>Lynch</i>	PSYCHIATRY Lectures and Demonstrations <i>Podata</i>
2-3	SECTION WORK MEDICINE AND SURGERY (see section schedule)		SECTION WORK MEDICINE AND SURGERY (see section schedule)			
3-4						
4-5	APPLIED HOMEO- PATHIC THERAPEUTICS <i>Hill</i> (Elective)					

**FOURTH YEAR
FIRST HALF YEAR**

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9						PREVENTIVE MEDICINE AND HYGIENE
9-10	PREVENTIVE MEDICINE AND HYGIENE					SURGERY Amphitheater Clinics <i>Terry</i>
10-11	ORTHOPEDIC SURGERY Lectures and Demonstrations <i>Baldwin</i>	SECTION WORK SURGERY, ORTHOPEDIC SURGERY, OPHTHALMOLOGY, OTOLARYNGOLOGY, UROLOGY, OBSTETRICS AND GYNECOLOGY (see section schedule)				MEDICINE Amphitheater Clinics <i>Moffitt</i>
11-12	MEDICAL JURISPRUDENCE Lectures					CLINICO-PATHOLOGICAL Conferences <i>Moffitt, Rusk</i>
12-1	GYNECOLOGY Lectures and Recitations <i>Lynch</i>					PSYCHIATRY Lectures and Demonstrations <i>Richards</i>
2-3	GYNECOLOGICAL PATHOLOGY Laboratory <i>Marvell</i>	SECTION WORK MEDICINE, SURGERY, PEDIATRICS, OBSTETRICS AND GYNECOLOGY (see section schedule)				
3-4	M. S. Bld.					
4-5						

FOURTH YEAR

SECOND HALF-YEAR

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
8-9						
9-10						SURGERY Amphitheater Clinics <i>Terry</i>
10-11						MEDICINE Amphitheater Clinics <i>Moffitt</i>
11-12						CLINICO-PATHOLOGICAL Conferences <i>Moffitt, Rust</i>
1-2						
2-3						
3-4						
4-5						

ELECTIVES

ELECTIVES

LIST OF STUDENTS

DEGREE OF M.D. CONFERRED MAY, 1920

Philip Howard Arnot, A.B.....	San Francisco
Dorothy Wells Atkinson, A.B.....	Tacoma, Washington
Thomas Fred Ayers, B.S.....	San Francisco
Arthur Elmer Belt, A.B., M.A.....	Huntington Park
Myron Murray Booth, A.B.....	Hutchinson, Kansas
Edwin Louis Bruck, A.B.....	St. Helena
Ruth Burr, A.B.....	Sacramento.
Alma Locke Cooke, B.S.....	Oakland
Randolph Davis.....	St. Mary's, Ontario, Canada
Charles Beebe Fowler, A.B.....	San Francisco
Mervyn Francis Frandy, A.B.....	Nevada City
Lloyd Elliott Hardgrave.....	Taylorsville
Charles Edward Locke, Jr., A.B.....	Los Angeles
Frederic George Maggs.....	San Francisco
Robert Carson Martin, A.B.....	Portland, Oregon
Belle Ellingsen Merrill.....	Oakland
Oscar Kempfer Mohs, A.B.....	Piedmont
Lois Pendleton, A.B.....	Los Angeles
Alverda Elva Reische, A.B.....	Meridian
Bert Stanford Thomas, A.B.....	San Francisco
Harold Guyon Trimble.....	Oakland

STUDENTS, SESSION 1919-1920

(Corrected to May, 1920)

FIFTH YEAR

Philip Howard Arnot, A.B.....	San Francisco
University of California Hospital.	
Dorothy Wells Atkinson, A.B.....	Tacoma, Washington
University of California Hospital.	
Thomas Fred Ayers, B.S.....	San Francisco
San Francisco Hospital.	
Arthur Elmer Belt, A.B., M.A.....	Huntington Park
1330 Sixth Avenue, San Francisco.	
Myron Murray Booth, A.B.....	Hutchinson, Kansas
University of California Hospital.	
Edwin Louis Bruck, A.B.....	St. Helena
University of California Hospital.	
Ruth Burr, A.B.....	Sacramento
San Francisco Hospital.	
Alma Locke Cooke, B.S.....	Oakland
San Francisco Hospital.	
Randolph Davis.....	St. Mary's, Ontario, Canada
San Francisco Hospital.	
Charles Beebe Fowler, A.B.....	San Francisco
San Francisco Hospital.	
Mervyn Francis Frandy, A.B.....	Nevada City
San Francisco Hospital.	
Lloyd Elliott Hardgrave.....	Taylorville
University of California Hospital.	
Charles Edward Locke, Jr., A.B.....	Los Angeles
University of California Hospital.	
Frederic George Maggs.....	San Francisco
University of California Hospital.	
Robert Carson Martin, A.B.....	Portland, Oregon
University of California Hospital.	
Belle Ellingsen Merrill.....	Oakland
San Francisco Hospital.	
Oscar Kempfer Mohs, A.B.....	Piedmont
University of California Hospital.	
Lois Pendleton, A.B.....	Los Angeles
San Francisco Hospital.	
Alverda Elva Reische, A.B.....	Meridian
University of California Hospital	
Bert Stanford Thomas, A.B.....	San Francisco
University of California Hospital.	
Harold Guyon Trimble.....	Oakland
University of California Hospital.	

FOURTH YEAR

Dexter Rankin Ball, A.B.....	Santa Ana
1425 Fifth Avenue, San Francisco.	
*William Hutt Barnes, A.B., M.A.....	Berkeley
2406 Channing Way, Berkeley.	

*On leave, 1919-20.

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136 A Parnassus Avenue, San Francisco.	
William Henry Bingaman, A.B.....	Gonzales
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Marmion Hugo Childress, A.B.....	Berkeley
Relief Home Hospital, San Francisco.	
Zach Benjamin Coblents, A.B.....	Santa Maria
3152 Washington Street, San Francisco.	
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2214 Dana Street, Berkeley.	
Waldron Ashley Gregory, A.B.....	Berkeley
Hotel Shattuck, Berkeley.	
Franklin Isadore Harris, A.B.....	San Francisco
443 19th Avenue, San Francisco.	
Hal Rexford Hobbler, B.S.....	Bay City, Michigan
Mount Zion Hospital, San Francisco.	
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1252 First Avenue, San Francisco.	
George S. Iki, A.B.....	Berkeley
85 Scott Street, San Francisco.	
Demetrio Eugene Jeffry, A.B.....	Healdsburg
Mount Zion Hospital, San Francisco.	
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6023 Colby Street, Oakland.	
John J. Kingston.....	San Francisco
320 Pierce Street, San Francisco.	
Frank Yoshimiche Kitsuda, A.B.....	San Francisco
1291 Stanyan Street, San Francisco.	
Kunisada Kiyasu, A.B.....	Anaheim
1291 Stanyan Street, San Francisco.	
Ewald Axel Larson, A.B.....	Kingsburg
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Clarence Griffith Potter.....	San Francisco
836 Clayton Street, San Francisco.	
Richard George Scribner, A.B.....	San Francisco
41 Woodland Avenue, San Francisco.	
Frederick Paxton Shafer, A.B.....	El Centro
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Jay Randolph Sharpstein, A.B.....	Alameda
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810 McAllister Street, San Francisco.	
Claude Verner Thompson, A.B.....	Orland
1281 Second Avenue, San Francisco	
Homer Ignatius van Horne, A.B.....	San Francisco
Hotel Whitecomb, San Francisco.	

THIRD YEAR

Robert Emmet Allen, A.B.....	San Francisco
1336 Eleventh Avenue, San Francisco.	
Harry Henry Appledorn, A.B.....	Berkeley
1450 Sixth Street, Berkeley.	
John Dryer Ball, A.B.....	Santa Ana
131 Hugo Street, San Francisco.	
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1226 Third Avenue, San Francisco.	
Thomas Stanley Burns, A.B.....	San Francisco
346 Lake Street, San Francisco.	
William Hugo Chisholm, A.B.....	Berkeley
2021 University Avenue, Berkeley.	
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Granville Sinclair Delamere, A.B., M.A.....	Berkeley
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Philip Joseph Dick, A.B.....	Fresno
1321 Fourth Avenue, San Francisco.	
Hugh Frederick Dormody, A.B.....	Placerville
1425 Fifth Avenue, San Francisco.	
Thomas Essington Gibson, A.B.....	Ojai
1281 Second Avenue, San Francisco.	
Charles Clarke Hall, A.B., M.A.....	Portland, Oregon
Relief Home Hospital, San Francisco.	
Horace John Hall.....	Newton, Newfoundland, Can.
San Francisco Hospital, San Francisco.	
James Edward Harbinson, A.B.....	Sacramento
1258 Fourth Avenue, San Francisco.	
George Carl Hensel, A.B.....	Eureka, Utah
1321 Fourth Avenue, San Francisco.	
Philip Hodgkin, A.B.....	Stockton
1321 Fourth Avenue, San Francisco.	
*Milan Edward Hunt, B.S.....	San Jose
1801 Hayes Street, San Francisco.	
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1258 Fourth Avenue, San Francisco.	
William Amos Key B.S.....	Fullerton
Relief Home Hospital, San Francisco.	
William Sherrill Kiskadden, A.B.....	Tulsa, Oklahoma
1439 Fifth Avenue, San Francisco.	
Adolph A. Kutzmann, A.B.....	Los Angeles
1423 Ninth Avenue, San Francisco.	
Marian Dwight Lockwood, A.B.....	Pasadena
1212 Arguello Boulevard, San Francisco.	
John Joyce Loutsenheiser, A.B.....	Grass Valley
1391 Fifth Avenue, San Francisco.	
Frazer Lapp Macpherson, A.B.....	San Diego
1391 Fifth Avenue, San Francisco.	
Edmund John Morrissey, A.B.....	San Francisco
1844 Laguna Street, San Francisco.	

*Deceased, July 16, 1920.

*Fred Connerts Nass, B.L.....	San Francisco
La Vina Sanatorium, Pasadena.	
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1321 Fourth Avenue, San Francisco.	
George Henry Sanderson.....	Stockton
1439 Fifth Avenue, San Francisco.	
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1277 First Avenue, San Francisco.	
Richard Ostler Schofield, A.B.....	Chinook, Montana
1437 Sixth Avenue, San Francisco.	
Eberle Charles Sheldon, A.B.....	Anaheim
1276 Seventh Avenue, San Francisco.	
Paul Baldwin Shuey, A.B.....	Oakland
1829 Adeline Street, Oakland.	
Milton Silver, A.B.....	Los Angeles
1258 Fourth Avenue, San Francisco.	
Harry Pratt Smith, A.B., M.A.....	San Francisco
301 Hugo Street, San Francisco.	
Sydney Kinnear Smith, A.B.....	Berkeley
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1511 Shrader Street, San Francisco.	
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SECOND YEAR

Ernest Green Allen, B.L., M.A.....	Upper Lake
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†Hubert Rogers Arnold, A.B.....	Salem, Oregon.
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[Edward S. Babcock, Jr.....	Riverside
San Carlos.	
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2312 Derby Street, Berkeley.	
George Merriman Burrall.....	Los Angeles
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*On leave, 1919-20.

†Hooper Foundation student, first half 1919-20.

*Emily Beatrice Carrier, A.B.....	Berkeley
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†St. Clair Garnett Cheney, A.B.....	San Francisco
33 Spruce Street, San Francisco.	
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Stuart Toussaint Davison, A.B.....	San Francisco
1942 Bush Street, San Francisco.	
†Guillaume Daniel Delprat, Jr., A.B.....	Melbourne, Australia
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Stanford Court Apartments, San Francisco.	
Norman Neisen Epstein.....	San Francisco
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Southard Tolchard Flynn.....	Berkeley
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†Frank Warne Lee.....	Berkeley
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Mark Davis Lessard.....	Alameda
1444 8th Avenue, San Francisco.	

†On leave, 1919-20.

‡Hooper Foundation student, first half 1919-20.

*Hooper Foundation student, second half 1919-20.

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Joseph Minton Meherin.....	San Francisco
307 Scott Street, San Francisco.	
Merrill Coleman Mensor.....	Berkeley
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†Gerville Mott.....	Oakland
276 Lee Street, Oakland.	
Guido Frederick Norman.....	Eureka
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George Francis Oviedo, A.B.....	San Francisco
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Louis Jerome Oviedo, A.B.....	San Francisco
132 Appleton Avenue, San Francisco.	
Felix L. Pearl.....	San Francisco
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Charles Joseph Simon.....	San Francisco.
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Meriam Elisabeth Simpson, A.B., M.A.....	Oakland
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†Francis Scott Smyth, A.B.....	Portland, Oregon
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Ralph Soto-Hall.....	San Francisco
2195 Green Street, San Francisco.	
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100 Judah Street, San Francisco.	
Amy Nivison Stannard, A.B.....	Berkeley
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Frances Ansley Torrey, A.B.....	Berkeley
100 Judah Street, San Francisco.	
Parker Davies Traak, A.B.....	Oakland
1502 Alice Street, Oakland.	
Chauncey M. Traver, A.B.....	Grand Rapids, Michigan
1381 3rd Avenue, San Francisco.	

†On leave, 1919-20.

†Hooper Foundation student, first half 1919-20.

*Hooper Foundation student, second half 1919-20.

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†Stafford L. Warren, A.B.....	Hayward
Hooper Foundation, San Francisco.	
Francis Preston Wianer, A.B.....	Berkeley
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FIRST YEAR

Louis William Achenbach.....	Riverside
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Archie Eli Amsbaugh.....	Newman
Merritt Hospital, Oakland.	
Rodney Fremont Atsatt.....	Berkeley
2350 Prospect Street, Berkeley.	
Charles Edward Harold Bates.....	Alameda
727 Paru Street, Alameda.	
Geoffrey Haslam Baxter.....	Berkeley
250 Tunnel Road, Berkeley.	
Clare Edward Bird.....	LaJolla
2534 Ridge Road, Berkeley.	
Edward Whittier Blair.....	Albany, Oregon
2425 Bancroft Way, Berkeley.	
Gail Borum.....	Berkeley
2704 Derby Street, Berkeley.	
Lucille Ynes Brown.....	Santa Maria
2736 Haste Street, Berkeley.	
Erma Birdine Browning.....	Sierra Madra
2421 Durant Avenue, Berkeley.	
Robert K. Cutter.....	Berkeley
1321 Spruce Street, Berkeley.	
†Donald Eugene Dement, A.B.....	San Diego
2214 Dana Street, Berkeley	
Isabel May DeYoung.....	Acampo
2749 Dwight Way, Berkeley.	
Beatrice E. Dorn.....	San Francisco
562 10th Avenue, San Francisco.	
Simon A. Doyle.....	San Francisco
732 Castro Street, San Francisco.	
Max Dunievits, A.B.....	Denver, Colorado
2223 Union Street, Berkeley.	
Claude Edgar Emery, A.B.....	San Francisco
2214 Union Street, Berkeley.	
Bertha V. Foler.....	Berkeley
2229 Chapel Street, Berkeley.	
Leona Gertrude Geiermann, A.B.....	Pasadena
2601 Virginia Street, Berkeley.	
Leila Emogene Gibson.....	Ukiah
2731 Regent Street, Berkeley.	
Hervey King Graham.....	Berkeley
2611 Webster Street, Berkeley.	

†Hooper Foundation student, first half 1919-20.

†On leave, 1919-20.

Frank Kelsey Haight.....	Fortuna
2603 Milvia Street, Berkeley.	
Aubrey Foster Holmes.....	Oakland
1501 23rd Avenue, Oakland.	
Clark Moore Johnson.....	San Diego
Fabiola Hospital, Oakland.	
Ottiwell Wood Jones, Jr.....	San Anselma
2627 Ridge Road, Berkeley.	
Georgia Norris Krusich.....	Santa Ana
2525 Durant Avenue, Berkeley.	
Theodore Carey Lawson.....	Berkeley.
1606 Milvia Street, Berkeley.	
Dorothy Cerita Lord.....	Berkeley
2803 Regent Street, Berkeley.	
Grace M. McKellips.....	Berkeley
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Henry Wade Macomber, A.B.....	Berkeley
2617 Cedar Street, Berkeley.	
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John Althouse Merrill.....	Albany, Oregon
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Mildred Metsner, A.B.....	San Francisco
1261 Guerrero Street, San Francisco.	
Melville Laurence Montgomery, A.B.....	Simi
2425 Bancroft Way, Berkeley.	
Harold Abner Morse, A.B.....	Oakland
2333 College Avenue, Berkeley.	
Madeline Ann Muldoon, A.B.....	Berkeley
2417 Blake Street, Berkeley.	
†James Robert Nakada.....	Berkeley
1739 Euclid Avenue, Berkeley.	
†Joseph Thomas Nakayama.....	Oakland
551 7th Street, Oakland.	
Thomas Charles O'Connor, Jr.....	New York City, New York
926 Tulare Street, Berkeley.	
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2401 Durant Avenue, Berkeley.	
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Paul Winning Sharp.....	Fort Jones
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Leonard William Skelton, A.B.....	Pasadena
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Alfred P. Solomon, A.B.....	Oakland
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†On leave, 1919-20.

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Dean McLaughlin Walker.....	Willows
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2601 Channing Way, Berkeley.	
Allan Raymond Watson, A.B.....	Eureka
2627 Ridge Road, Berkeley.	
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2717 Haste Street, Berkeley.	
Earl Willson Wells, A.B.....	Los Angeles
2233 Ellsworth Street, Berkeley.	
George Joseph Wood, A.B.....	Tulare
2122 Bancroft Way, Berkeley.	

HOOPER FOUNDATION STUDENTS

1919-1920

Hubert Rogers Arnold, A.B.....	Salem, Oregon
1281 Second Avenue, San Francisco.	
Emily Beatrice Carrier, A.B.....	Berkeley
100 Judah Street, San Francisco.	
Guillaume Daniel Delprat, Jr., A.B.....	Melbourne, Australia
1281 Second Avenue, San Francisco.	
Hilda Hempl Heller, A.B., M.S., Ph.D.....	Stanford University
1208 First Avenue, San Francisco.	
Frank Warne Lee.....	Berkeley
1281 Second Avenue, San Francisco.	
Karl Francis Pelkan.....	San Francisco
814 Cole Street, San Francisco.	
Francis Scott Smyth, A.B.....	Portland, Oregon
1398 Fifth Avenue, San Francisco.	
Stafford L. Warren, A.B.....	Hayward
Hooper Foundation, San Francisco.	

SUMMARY

CANDIDATES FOR THE DEGREE OF DOCTOR OF MEDICINE

Fifth Class.....	21
Fourth Class.....	27
Third Class.....	44
Second Class.....	*60
First Class.....	57
Total.....	209

*Of this class, eight were Hooper Foundation students, either the first or second half of 1919-20.

†On leave, 1919-20.

GRADUATES

GRADUATES

1864

- *Ferdinand D'amour.
- *J. C. Davis, Jr.
- *A. L. DuBois.
- *J. C. Handy.
- W. B. Pond.
- 122 Clay Street, Napa.
- *C. A. Stivers.
- *F. L. Weeks.
- *W. P. Welch.

1865

- E. J. Drinkhouse.
- *C. M. Fahn.
- Edward R. Gros.
- Edward R. Taylor,
- 2326 California Street, San Francisco.

1866

- *Edward T. Barber.
- *Conant B. Brierly.
- *Andrew Fine.
- Granville Heavitt.
- Marin B. Lingo.
- *Richard H. Plummer.
- *Renny J. Prevost.
- *J. A. Richardson.
- *Samuel H. Rupe.

1867

- John Cairns.
- *John Hackett.
- Thomas C. Hansen.
- *A. A. O'Neill.
- *Luke Robinson.
- Thomas W. Shelton.
- John Steely.
- *J. P. Widney.

1868

- *Charles B. Bates.
- *James S. Cameron.
- *S. J. Corbett.
- *Lucius McGuire.
- *Valentine Newmark.
- G. Walts.

1869

- *Robert Caldwell.
- *J. J. Clark.

*Deceased.

- W. A. Cochran.
- *C. S. Haile.
- *Charles A. Toland.
- *H. P. Tuttle.
- *J. T. Turner.
- J. C. Webber.
- *Alex. J. Younger.

1870

- M. W. Briggs,
- Lima, Peru.
- J. H. Mackenzie.
- *H. N. Rucker.
- *C. T. Sage.
- John L. Seawell.

1871

- *Leonard Churchill.
- *James E. Hampton.
- *C. A. Kirkpatrick.

1872

- *George B. Keane.
- Joseph Kurts,
- Douglas Bldg., Los Angeles.
- *L. Dexter Lyford.

1873

- *J. A. Anderson.
- *Thomas H. Cox.
- *E. D. Martineaut.
- *William H. Mays.
- *J. C. O'Neill.
- *Martin Schnabel.
- *A. P. Whittell.

1874

- Frederick P. Biggs.
- *James W. Blake.
- *Francois Delmont.
- *Young E. Hicks.
- *William P. McDermott.
- *Robert A. McLean.
- *Charles E. Miller.
- George E. Nottage.
- *John W. Waters.

1875

- William P. Agnew,
- 1440 Clement Street, San Francisco.
- *Edward O. Allen.

- *C. W. Benedict.
John F. Calbreath.
D. T. Callaghan,
2931 Pacific Ave., San Francisco.
Joseph R. Davidson,
68 Post Street, San Francisco.
- *Alson Dawson.
Thomas W. Harris.
Augustus E. Koeby,
Yuba City.
Benjamin F. Mason,
847 E. 14th Street, San Leandro.
John A. Miller,
937 Ashbury Street, San Francisco.
E. J. Schellhaus.
*Jules A. Simon.
William P. Smith.
Charles M. Swann.

1876

- *Charles M. Blake.
- *J. J. Bramer.
George J. Brown.
- *V. A. Chaigneau.
- *John J. Connolly.
- *W. H. A. Hodgdon.
- *Walter E. Hook.
J. W. Kirkwood.
- *W. H. Lindenberber.
H. F. McCormack,
R. F. D. 3, Eugene, Oregon.
John F. Minor,
1135 Park Street, Alameda.
- *Horace E. Pope.
J. M. Powell.
- *Albert P. Quinlin.
James Rorke.
- *Thomas W. Seawell.
Gust W. Sichel,
1342 Green Street, San Francisco.
T. H. Smith,
Pomona.
- *G. M. Summers.
L. M. F. Wanser,
2970 California Street, San Francisco.

1877

- *S. C. Duncan.
- *James Frost.
- *J. M. Heinimann.
Simon E. Josephi,
132 E. 12th Street, Portland, Oregon.

*Deceased.

- G. F. McColl.
J. J. McDonald.
- *Joseph Pescia.
- *George A. Reich.
- *George E. Reynolds.
B. E. Stephenson,
701 Court Street, Redding.
- J. R. Swisher,
109½ West Street, Healdsburg.
- F. Von Buelow.
- E. M. Weiss,
995 Market Street, San Francisco.
- S. P. Wheaton.
- W. T. Williamson,
E. 30th & Powell Sts., Portland, Ore.

1878

- *George F. Bradbury.
William C. Bruns.
Mary K. Curran.
- *A. J. Guillemard.
- *Frank A. Lewitt.
- *M. A. McLaughlin.
Charles Osler,
Salida, Stanislaus County.
- *J. A. Pruett.
L. T. Seavey,
606 Calhoun Street, Port Townsend,
Washington.
- Sarah I. Shuey,
1307 Broadway, Oakland.
- John F. Summers,
Bishop.

1879

- D. M. Addington,
Sutter.
- *George W. Downs.
- *Gilbert Foote.
- *Herbert A. Gale.
- *Roberdeau Harmon.
- *H. H. Howell.
- *Lewis J. Hughes.
Arthur Johnstone.
Arthur W. Scott,
622 Eighth Avenue, San Francisco.
- George S. Smith,
558 Steiner Street, San Francisco.
- Agnes Sparks,
140 S. Portland Ave., Brooklyn, N.Y.
- *W. C. Voight.
- *Edward A. Younger.

1880

- *A. F. Bettelheim.
- *H. H. Caldwell.
- *J. F. Foulkes.
- *T. P. Hopkins.
- *Horace Laidlaw.
Franklin F. Lord.
- *Robert C. Meyers.
- *H. E. Mueller.
Henry M. Pond,
1500 Central Avenue, Alameda.
- John W. Robertson,
240 Stockton Street, San Francisco.
- L. A. Sobey.

1881

- Walter E. Bates,
Davis.
- E. M. Beardsely.
- Charles A. Clinton,
2499 Howard Street, San Francisco.
- *Andrew J. Dean.
- Anson A. DePuy,
Fruitvale.
- C. W. Evans,
Modesto.
- *J. P. LeFevre.
- G. W. Gillham.
- *E. L. Grattan.
Emma L. Sutro Merritt,
Sutro Heights, San Francisco.
- F. E. Morgan.
Santa Cruz.
- *William H. Olds.
- *H. C. Sawyer.
- *Anna F. Sellon.
John H. Sheets.
Buckley, Washington.
- *Julius D. Young.

1882

- Benjamin H. Baumeister,
263 29th Street, San Francisco.
- R. Innis Bromley,
493 Washington Street, Sonora.
- *L. S. Burchard.
- *J. M. Matthewson.
George Washington Merritt,
Sutro Heights, San Francisco.
- *Mary W. F. Moody.
- *Henry Muentner.
- *T. J. Patterson.

*Deceased.

- Joseph Richey Payne,
505½ S. Main Street, Los Angeles.
- John B. Pressley,
Sanger.
- Thomas B. Reardon,
Oroville.
- *E. S. Senter.
- *James Stanton.
- *J. M. Stewart.
- *Albert P. Tarter.

1883

- *Henry J. Borde.
- *Jerome A. Hughes.
Emile V. Lonigo,
723 Beach Street, San Francisco.
- William B. Lovett,
Paradise.
- *Gustaf W. Lundborg.
Emile C. Mervy
2095 Market Street, San Francisco.
- *Charles J. Patton.
Clarence E. Reed,
Redding.
- *Jahial S. Riley.
Kurt Urban,
41 Main Street, Petaluma.
- *William J. Wickman.

1884

- *Winslow Anderson.
- *William M. S. Beede.
Vincent P. Buckley,
333 Kearney Street, San Francisco.
- William D. Clark,
2554 California Street, San Francisco.
- Thomas E. Connolly,
3760 17th Street, San Francisco.
- Arnold A. D'Ancona,
862 Shrader Street, San Francisco.
- John G. Day.
- *Henry Washington Dodge.
- *Charles M. Enright.
- *Frank H. Gates.
- *Juan W. McCoy.
George H. F. Nuttall,
Longfield, Madingley Rd., Cambridge,
England.
- Herman Partsch,
2001 Lincoln, Berkeley.
- Albert L. Scholl,
1866 Fell Street, San Francisco.
- *Elenora S. Sherman.

1885

- Howard V. Armistead,
Newman.
Robert O. Baldwin,
380 Grant Avenue, Oakland.
*Addison C. Collins,
John Gallwey,
177 Post Street, San Francisco.
Katherine I. Howard,
2907 Fillmore Street, San Francisco.
Daniel D. Lustig,
177 Post Street, San Francisco.
Theodore A. Nichols,
San Jose.
*Edward L. Perrault.
*Wilbur J. Wilcox.
John M. Williamson,
Head Building, San Francisco.
*Henry M. Winton.
W. E. Josephine Woods.
*David Wooster.

1886

- Ernest L. Brown.
*William P. Chalmers.
William E. Conlan,
704 Haight Street, San Francisco.
Thomas H. Kingsley.
*Benjamin A. Plant.
Julius Soboslay,
995 Market Street, San Francisco.
Kemlo R. McD. Wilson,
Scotland.

1887

- Wm. R. Cluness, Jr.,
376 Pine Street, San Francisco.
Frank S. Cook,
Brentwood, Contra Costa County.
Michael J. Fottrell,
Phelan Building, San Francisco.
George I. Glase.
*William B. Howard.
Frederick Kirchhoffer,
1030 Valencia Street, San Francisco.
Sankio Koboyashi,
Japan.
Arthur H. Mays,
1039 Water Street, Sausalito.
*John T. McLean.
*Augustus L. Morrill.
*Theorilda C. Park.
*William E. Reardon.

*Deceased.

- James Shannon,
Cobb Building, Seattle, Washington.
Henry L. Tevis,
Los Gatos.
Tey Watanabe,
Japan.
Robert B. Williams,
Butler Building, San Francisco.

1888

- Monroe E. Alexander.
*John H. Barbat.
Rosamond L. Cox,
2405 Washington Street, San Francisco.
*Nathan P. Dennis.
*James P. H. Dunn.
*Melvin B. Estes.
Euclid B. Frick,
275 Post Street, San Francisco.
Albert K. Happersberger,
945 Fillmore Street, San Francisco.
John L. Kelly.
John A. Noble,
516 Sutter Street, San Francisco.
*James T. White.

1889

- *Robert E. Bunker.
*Francesca I. Foreman.
Christopher C. Gleave.
Auditorium Building, Los Angeles.
Frances R. Marx Greene.
William H. Haakin,
40 E. 41st Street, New York City, N.Y. .
Edward R. Holmes.
Ottowell W. Jones,
Flood Building, San Francisco.
Nassayasu Kawakami.
Squire R. Mather.
Aloysius P. O'Brien,
126 Post Street, San Francisco.
Joseph A. Oliver,
1825 Turk Street, San Francisco.
Samuel P. Tuggle,
State Hospital, Stockton.
Mark S. Wade.
*Gustav C. Zeyn.

1890

- Frederick T. Bond,
Vallejo.
*Rae Felt.
William J. Hawkins,
70 Baker Street, San Francisco.

Samuel J. Hunkin,
1155 Bush Street, San Francisco.
*Henry B. A. Kugeler.
Charles S. Mann,
641 O'Farrell Street, San Francisco.
*John M. Martines.
Albert G. Meyer,
2599 Howard Street, San Francisco.
Charles C. Mohun,
86 Post Street, San Francisco.
Charlott B. S. Montgomery,
2350 Vallejo Street, San Francisco.
Albert J. Scholl,
1336 Main Street, Los Angeles.
Benjamin F. Surryhne,
Modesto.
Marion Thrasher,
1278 Market Street, San Francisco.

1891

Hehry Anthony Baker,
119 Bryant Avenue, Pittsburg, Pa.
Charles Robert Blake,
704 MacDonald Avenue, Richmond.
Clark James Burnham,
2251 Telegraph Avenue, Berkeley.
Philip Colliachonn,
1924 Pine Street, San Francisco.
Edward Paul Driscoll,
2027 Polk Street, San Francisco.
Arthur White Dunbar,
% U. S. N.
Campbell Ford,
246 Powell Street, San Francisco.
*William Thomas Kirby.
Edward Lagan,
560 Page Street, San Francisco.
John Munroe MacDonald,
209 Post Street, San Francisco.
John R. McMurdo,
San Francisco.
*Joseph Leo Milton.
James John Molony,
907 Valencia Street, San Francisco.
Fred Wellington Morse,
Oakland Bank of Savings & Trust
Building, Oakland.
Marie Colditz Olsen,
Roosevelt Hospital, Berkeley.
*Louis Perfecto Oviedo.
Frank Branson Petrie,
211 Cornwall Street, San Francisco.
*John Marion Sims.

*Deceased.

Weston Olin Smith,
1912 Encinal Avenue, Alameda.
James Kyle Warner,
2nd & J Streets, Livermore.
James Thomas Wayson,
Honolulu, Hawaii.

1892

Guido E. Caglieri,
2620 Larkin Street, San Francisco.
Emma E. Crook,
San Bruno.
Lillie Bussenius Schram D'Ancona,
862 Shrader Street, San Francisco.
*S. J. Fraser.
Ernest Kinlock Johnstone,
Honolulu, Hawaii.
*Frederick William Lowe,
*James F. McCone.
John A. Nelson,
924 Irving Street, San Francisco.
George W. Ogden,
Napa State Hospital, Napa.
William T. Rathbun,
Colusa.
*Franklin H. Sanborn.
Robert L. Sutherland.
Wallace Irving Terry,
240 Stockton Street, San Francisco.
Edward Von Adelung,
1206 Broadway, Oakland.

1893

John W. Aird,
Provo, Utah.
Richard M. H. Berndt,
Butler Building, San Francisco.
Rawlins Cadwallader,
1035 Geary Street, San Francisco.
*David Andrew Conrad.
Abraham L. Cothran,
1460 The Alameda, San Jose.
Millicent E. Falck Nathanson,
1624 48th Avenue, San Francisco.
Francis Bartholomew Fleming,
1783 Union Street, San Francisco.
Frederick Charles G. Fleisher.
Ernest Maynard Freeman,
Long Beach.
Alexander Marshall Gall,
Jackson.
Cosmos Andrew Glover,
Flood Building, San Francisco.

Edward Shelton Horton.
 Clarence H. Hulse,
 83 Norman Avenue, Brooklyn, N.Y.

*Hugh Lagan.

Charles S. Maguire,
 281 Page Street, San Francisco.
 Charles F. McCarthy,
 Shreve Building, San Francisco.
 Henry duR. Phelan,
 American Embassy, Paris, France.

*Gardner Perry Pond.

Stephen H. Rants,
 383 Main Street, Placerville.
 William K. Sanborn,
 1307 Broadway, Oakland.
 Sydney H. Schrader.
 Grace Simon,
 617 Kearney Street, San Francisco.

1894

John R. Booth,
 1st National Bank Building, Oakland.
 Edwin Bunnell,
 1898 Geary Street, San Francisco.
 George Waverly Clark,
 924 Irving Street, San Francisco.
 Stephen Cleary,
 267 Fourth Avenue, San Francisco.
 Robert Crees,
 736 Pine Street, Napa.
 Edward Spence De Puy,
 204 Dalziel Building, Oakland.
 Clarence Fitzhugh Dickenson,
 514 Rowell Building, Fresno.
 Helen M. McKnight Doyle,
 Bishop.
 Frank Timothy Fitzgibbon,
 1114 Sutter Street, San Francisco.
 Charles Henry Freeman,
 Phelan Building, San Francisco.
 August Greth,
 752 W. 7th Street, Los Angeles.
 Edward John Hill,
 Box 455, Eureka.
 Thomas Blakeman Holmes,
 1501 23rd Avenue, Oakland.
 Thomas B. W. Leland,
 Flood Building, San Francisco.
 Martin B. MacInnis.
 Frank E. McCullough,
 % U. S. N.
 Joseph Grant Morrissey,
 St. Mary's Hospital, San Francisco.

*Deceased.

Mary E. Morrison.
 Casimir F. Pawliki,
 Head Building, San Francisco.

*Fenelon M. Reith.

Corydon B. Root.
 Henry A. L. Ryfkogel,
 516 Sutter Street, San Francisco.
 Natalie Selling,
 391 Sutter Street, San Francisco.
 James Graham Sharp,
 Butler Building, San Francisco.

*Neli A. Sime.

Harvey F. Smith.
 Henry W. Stirewalt,
 1684 8th Avenue, San Francisco.
 James Goodwin Thompson,
 1704 Telegraph Avenue, Oakland.
 Edward V. Tiffany,
 Bacon Building, Oakland.
 Farrington Wilkes.
 Henry E. Wright,
 1511 M. Street, Sacramento.

1895

Louis D. Bacigalupi,
 Bush & Hyde Streets, San Francisco.
 Jose Crisanto Badilla,
 Bush & Hyde Streets, San Francisco.
 *William Benjamin Franklin Barbat.
 William J. R. Boyes,
 391 Sutter Street, San Francisco.
 Augustus Frank Browne,
 San Varlos.
 Frank W. Dudley,
 Manila, P.I.
 Daniel E. F. Easton,
 14 Montgomery Street, San Francisco.
 *Horatio B. Emerson.
 *John J. Flood.
 *Robert F. Gray.
 *William G. Hay.
 *Clarence Louis Heller.
 George L. Helms,
 1021 Hollingsworth Bldg., Los Angeles.
 Edward Kimball Hopkins.
 James P. Hull,
 Brower Building, Bakersfield.
 George E. Hyde,
 Provo, Utah.
 August L. J. Lartigau,
 391 Sutter Street, San Francisco.
 *Frederick A. Lutz.
 Hammond J. MacCallum.

*Thomas A. McCulloch.
John Ernest Nast,
Hewes Building, San Francisco.
Adelina M. Feder Philips,
Butler Building, San Francisco.
Frederick A. Rinne,
2911 Folsom Street, San Francisco.
Mary J. Sankey,
731 San Jose Street, San Francisco.
Charles J. Schmels,
Guerneville, Sonoma County.
Rose Eppinger Sharp,
951 Hamilton Avenue, Palo Alto.
Bertram Stone,
4112 24th Street, San Francisco.
*William Augustus Trafton.
Albert J. Villain,
Flood Building, San Francisco.

1896

*Clifford Emmet Allen.
Helen O. Anderson,
Bradbury Building, Los Angeles.
*Cecil M. Armistead.
Eleanor May Stow Bancroft,
Concord.
Henry Martin Beck,
1302 Fillmore Street, San Francisco.
Sanford Blum,
301 Phelan Building, San Francisco.
Mary Elisabeth Botsford,
807 Francisco Street, San Francisco.
George Anthony Broughton,
Oxnard.
William P. Burnham,
1196 McAllister Street, San Francisco.
Howard McD. Cameron,
1020 8th Street, Sacramento.
William D'Arcy Chace,
Nome, Alaska.
*Leonard Hayes Coe.
Thomas F. Cox,
801 I Street, Sacramento.
Attilio H. Giannini,
680 Broadway, New York City, N.Y.
Joseph T. Harrigan.
Ichitaro Katsuki,
Honolulu, T. H.
Wilfred Harvey Kellogg,
Underwood Building, San Francisco.
*James Frederick Kearney.

*Arthur S. Lee.
*Clarence LaFayette Maloon.
Charles D. McGettigan,
240 Stockton Street, San Francisco.
*Alfred McLaughlin.
Thomas D. Maher,
712 Flood Building, San Francisco.
Mary Stewart Marshall.
Charles L. Morgan,
Half Moon Bay.
Howard Morrow,
Butler Building, San Francisco.
James Daniel Murphy,
Medical Building, San Francisco.
Brayton Muscot.
Alfred Newlman,
Flood Building, San Francisco.
Mary L. Noble,
Auditorium Building, Los Angeles.
John Henry O'Brien,
328½ S. Spring Street, Los Angeles.
John Thomas O'Brien,
147 Kentucky Street, Petaluma.
Louise Augusta Oldenbourg,
342 Hawthorne Avenue, Oakland.
*William Henry J. O'Malley.
Robert H. Orr,
544 Steiner Street, San Francisco.
*George Louis Painter.
*Wallace Ernest Parkman.
Victor E. Putman,
290 Divisadero Street, San Francisco.
*Joseph Rochex.
Marshall B. Ryer,
400 Steiner Street, San Francisco.
Florence Scott,
Butler Building, San Francisco.
*John T. Stafford.
Arthur A. Stern,
Physicians Building, Sacramento.
Mack V. Stone,
Healdsburg.
William M. Stover,
1130 Garden Street, San Luis Obispo.
Grace Feder Thompson.
Lewis Sanborn Thorpe,
Marsh-Strong Building, Los Angeles.
*Henry Caustin Trask.
Alberto Trevino.
Newton B. Waller,
53 E. 82nd Street, New York, N.Y.

*Deceased.

1897

- Holton C. Curl,
% U. S. N.
William Lawrence Dunn,
Union Savings Bank Bldg., Oakland.
Bertha Borchers Franklin,
% Remy Electric Co., Anderson, Ind.
Thomas A. Hickey.
*Samuel D. Huntington.
*Frank A. McMahon.
*Murdoch McLean.

1898

- Henry Abraham,
Flood Building, San Francisco.
Cosan Julian Bartlett,
M. C. U. S. A.
William Lisle Bell,
Crockett.
Grace S. Linforth Boalt,
133 Geary Street, San Francisco.
Pedar Sather Bruguire,
518 Montgomery Street, San Francisco
Edwin Callaway.
Thomas J. Crowley,
Flood Building, San Francisco.
George Woodward Duffy,
1014 Eighth Street, Sacramento.
Henry M. Fine,
1225 Washington Street, Oakland.
Edward David Giroux,
Winnemucca, Nevada.
Howard Stephen Hill,
Northern Bank Building, Seattle,
Washington.
Malvina I. Judell,
135 Stockton Street, San Francisco.
Alexander Stanislaus Keenan,
Flood Building, San Francisco.
Victor F. Luchetti,
916 Kearney Street, San Francisco.
Joseph S. Menefee,
1148 Webster Street, San Francisco.
Frederick C. Muller,
2486 Fulton Street, San Francisco.
Thomas B. Roche,
1402 Sacramento Street, San Francisco.
Frank J. Tillman,
1044 J. Street, Fresno.
Oscar D. Tobriner,
350 Post Street, San Francisco.
Neil C. Trew,
2919 Waverly Street, Los Angeles.

*Deceased.

1899

- Samuel Richard Arthur,
Woodbridge.
Rachel Leona Ash,
U. C. Hospital, San Francisco.
Thomas James Clark,
Oakland Bank of Savings Building,
Oakland.
*John Adams Colliver.
Edgar Meyer Dinkelspiel,
307 W. 78th Street, New York City,
N.Y.
George Elliot Ebright,
209 Post Street, San Francisco.
Mark Lewis Emerson,
1307 Broadway, Oakland.
Milton Washington Franklin,
% Remy Electric Co., Anderson, Ind.
Donald Jackson Frick,
711 Van Nuys Building, Los Angeles.
Samuel James Gardner,
Medical Building, San Francisco.
Allen Francis Gillihan,
State Board of Health, Sacramento.
Harrington Bidwell Graham,
240 Stockton Street, San Francisco.
Walter Joseph Henesey.
*Paul Ruhnke Lans.
Robert Thomas Legge,
University of California, Berkeley.
*Charles Forester Millar.
Bernard Francis McElroy,
Medical Building, San Francisco.
Silvio Joseph Onesti,
916 Kearny Street, San Francisco.
Emma Wightman Pope,
249 Cherry Street, San Francisco.
Saxton Temple Pope,
Butler Building, San Francisco.
Edward James Rice,
Normandie Appartments, Ninth and
University Streets, Seattle, Wash.
William Emerson Stevens,
210 Post Street, San Francisco.
George Lawrence Stevenson,
Peoples Bank Building, Sacramento.
James Edward Taylor,
Keswick.
*Oscar Nettleton Taylor.
Vida Reddington Volkhardt,
902 Indian Rock Avenue, Berkeley.
Gustavus Adolphus Weyer,
Flood Building, San Francisco.

William Patten Willard,
177 Post Street San Francisco.

1900

Harry Everett Alderson,
240 Stockton Street, San Francisco.
David Eugene Bacigalupi,
21 Columbus Avenue, San Francisco.
Ernestine Doychert.
Edgar James Farrow,
Manila, P.I.
Manuel Fernandes,
Pinole.
Elisabeth F. Joyce Fischer,
7133 Geary Street, San Francisco.
Dora Ida Dorn Hammar,
668 Funston Avenue, San Francisco.
*William P. Harvey.
Rutherford Buchard Irones,
Timken Building, San Diego.
Bernard John Klots,
341 Georgia Street, Vallejo.
Samuel Walter Ross Langdon,
Winton.

*Julia Paulina Larson.
Clyde Briggs Laughlin.
Thomas Michael Maguire,
281 Page Street, San Francisco.
George Jewett McChesney,
Flood Building, San Francisco.
Arthur Merrill McIntosh,
Acheson Building, Berkeley.

*Tadataro Miyabe.
William George Moore,
177 Post Street, San Francisco.
Mary Elizabeth Nolan.
Peter Osprig.
Matthew Dennis Pratt,
Fall River Mills.

*George Frederick Reinhardt.

*Raymond John Russ.
Louis Victor Saph,
122 N. Eighth Street, San Jose.
Frank William Simpson,
2446 Channing Way, Berkeley.
John Francis Sullivan,
434 Guerrero Street, San Francisco.
George Joseph Sweeney,
1150 Masonic Avenue, San Francisco.

*Theodora Elliott Vassault.
Herbert Charles Watts,
Fort Amador, Canal Zone.

Emmet LeRoy Wemple.
Edwin Milton Wilder,
1027 10th Street, Sacramento.

1901

Edgar Allen Arthur,
Savings and Loan Building, Stockton.
Wilfred Fenton Beerman,
Flood Building, San Francisco.
Walter Murray Dickie,
1030 Magnolia Avenue, Los Angeles.
Ralph Orlando Dresser,
Paso Robles.
John Nivison Force,
University of California, Berkeley.
Florence McCoy Hill,
418 39th Avenue, San Francisco.
Harold Phillips Hill,
177 Post Street, San Francisco.
Reuben Chandler Hill,
418 39th Avenue, San Francisco.
Mary Frances Kavanaugh,
U. C. Hospital, San Francisco.
Milton Byrne Lennon,
Butler Building, San Francisco.
John Vaughan Leonard,
177 Post Street, San Francisco.
William Kinkade Lindsay,
1027 10th Street, Sacramento.
Rasmus Hansen Madsen.
Kate Isabel Brady Lartigau,
391 Sutter Street, San Francisco.
Frederick Lincoln Morong,
Honolulu, Hawaii.
*William James Murphy.
George Philip Purlenky,
Arcata.
Fletcher Greene Sanborn,
Honolulu, Hawaii.
Lionel Samuel Schmitt,
U. C. Hospital, San Francisco.
James Walter Seawell,
Healdsburg.
Haydn Mozart Simmons,
Phelan Building, San Francisco.
Hudson Smythe,
Farmers' and Merchants' Building,
Stockton.
George William Sweetser,
Martinez.
Benjamin Thomas,
903 Bryant Street, Palo Alto.

*Deceased.

Joseph Michael Toner,
3197 16th Street, San Francisco.

*John Lysander White.
Chester Howard Woolsey,
Flood Building, San Francisco.
Una Yone Yanagisawa,
Tokyo, Japan.

1902

Benjamin Bakewell,
1205 State Street, Santa Barbara.
William Baumgarten,
3179 22nd Street, San Francisco.
Philip August Bill,
350 Post Street, San Francisco.
Emma Buckley,
U. C. Hospital, San Francisco.

*William Charles Chilson.
Blanche C. Van Heusen Culver,
150 11th Avenue, San Francisco.

*Henry David Fanning.
Ernest Charles Foster,
Emporium Building, Hanford.
Charles Raymond D. Gleason,
Flood Building, San Francisco.
Frank Revere Henderson.
George Hippolyte Juilly,
133 Geary Street, San Francisco.
Marguerite Deininger Keser,
919 Macdonald Avenue, Richmond.
Ostroilo Stanislaus Kucich,
Flood Building, San Francisco.
Adelbert Watts Lee,
U. C. Medical School, San Francisco.
John Herbert Leimbach,
Isleton.
Birney Alexander Lendrum,
275 S. Sixteenth Street, San Jose.
Arthur Pascal Lensman,
Cobb Building, Seattle, Washington.
Ergo Alexander Majors,
532 15th Street, Oakland.
John Harry Mallery,
La Mesa.
Arthur Thomas McGinty,
Ryland Building, San Jose.
*Joseph Frederick Meagher.
Caroline Stow Merwin,
Shantung, China.
Dan Hasen Moulton,
339 Broadway, Chico.
John Crockett Newton,
291 Geary Street, San Francisco.

*Deceased.

Joseph Martin O'Donnell,
Hollister.
Harry Elwin Piper,
Santa Cruz.
George Herman Powers,
298 Marlboro Street, Boston, Mass.
James Fowler Pressley,
246 Powell Street, San Francisco.
Frank L. Putman,
Honolulu, Hawaii.
Thomas D'Arcy McGee Quinn,
Flood Building, San Francisco.
Frederick Henry Tebbe,
Weed.
Lewis Lee Thompson,
Gridley.
Edward Topham,
Flood Building, San Francisco.
*William John Walsh.
Walter Joseph M. Williams,
Head Building, San Francisco.
Frederick H. Zumwalt,
135 Stockton Street, San Francisco.

1903

Adolph Baer,
177 Post Street, San Francisco.
Paul Edward Biber,
Lorton Lamb Building, Burlingame.
Rene Bine,
350 Post Street, San Francisco.
Louis Isidor Breitstein,
350 Post Street, San Francisco.
George DeWitt Culver,
323 Geary Street, San Francisco.
Henrietta Hagan Duggan,
1228 Valencia Street, San Francisco.
James Alexander Ellis,
Citizens Bank Building, Alameda.
Frank Robert Girard,
Flood Building, San Francisco.
James Kiah Hamilton,
1275 Weber Street, Alameda.
Howard Gilman Hill,
Redlands.
James Raymond Hurley,
% U. S. P. H. S.
Madeline Johns,
Head Building, San Francisco.
Joseph James Kavanagh,
Flood Building, San Francisco.
Henry H. Lissner,
806 Brockman Building, Los Angeles.

Rudolph Ignatius Longabaugh,
% U. S. N.
William Garrett McGuire,
Aloysius John McKinnon,
2nd & Santa Clara Avenues, Rio Vista.
Charles Lemon McKnown,
Niles.
Thomas Reid McNab,
614 Van Nuys Building, Los Angeles.
Mark Leonard Miner,
1419 90th Avenue, Oakland.
Viola Ruth Oleovich Oppenheimer,
San Salvador, C.A.
Robert G. Reynolds,
455 University Avenue, Palo Alta
Harry Philip Roberts,
516 Sutter Street, San Francisco.
Caroline Rosenberg,
2900 Jackson Street, San Francisco.
Walter Scott Rutherford,
1830 Harrison Blvd., Oakland.
David Emmet Stafford,
2513 Broadway, San Francisco.
Earle Almerson Stone,
1400 W. 16th Street, Los Angeles.
Sydney Vattel West,
1723 N. Golden Gate Ave., Los Angeles.
Clarence Alfred Wills,
First National Bank Bldg., Oakland.
Josephine E. Barbat Winalow,
1226 Second Avenue, San Francisco.

1904

Morgan Dillon Baker, Jr.,
45 N. First Street, San Jose.
*Maurice Lowell Baum,
Edward Emery Baumeister,
Morehead Building, Chico.
David William Brown,
2447 Hopkins Street, Oakland.
Edith Sara Brownell,
2251 Telegraph Avenue, Berkeley.
Paul Castlehoun,
1207 Flood Building, San Francisco.
John Nolan Chain,
428 Fifth Street, Eureka.
David Albert Ewing,
705 Broadway, Seattle, Wash.
Arthur Wellesley Foshay,
First National Bank Bldg., Oakland.
*George Ann Harker,
Morton Edwin Hart,
246 Powell Street, San Francisco.

*Deceased.

Louise A. Linscott Hector,
2011 Yolo Street, Berkeley.
Robert Hector, Jr.,
2011 Yolo Street, Berkeley.
Foster Melancton Hoag,
507 Paulsen Bldg., Spokane, Wash.
Louis Clive Jacobs,
462 Flood Building, San Francisco.
Henning Kofoid,
Oakland Bank Savings Bldg., Oakland.
Clarke Loring McClish
1760 W. Adams Street, Los Angeles.
Pernier Albert Mix,
Exeter.
Robert Julian Nicholls,
Dutch Flat.
Stuart Zeno Peoples,
159 Kentucky Street, Petaluma.
John Peter Sandholdt,
Box 231, Monterey.
Jacob Schwarz,
350 Post Street, San Francisco.
John Francis Slavich,
Union Savings Bank Bldg., Oakland.
Eugene Kneeland Smith,
Lovelocks, Nevada.
Fred Hugh Van Tassel,
2982 Adeline Street, Berkeley.
Wilhelm Waldeyer,
350 Post Street, San Francisco.
Henry Claud Warren,
California Sanatorium, Belmont.
Hannah Ellen Webster,
1195 Alameda Avenue, San Jose.

1905

George Cummings Albee,
South Orange, New Jersey.
Edgar William Alexander,
135 Stockton Street, San Francisco.
Coniah Leigh Bigelow,
Phelan Building, San Francisco.
James Clark Blair,
First National Bank Bldg., San Jose.
Constantine Raphael Bricca,
Bush and Hyde Streets, San Francisco.
George Abiel Briggs,
Physicians' Building, Sacramento.
William Franklin Cothran,
8 Trust Building, Santa Cruz.
Ambrose Franklin Cowden,
Hilm Building, Santa Cruz.
Mary Tom DeHaven.

Harriette Buttler Harker.
 Herman Verplanck Hoffman,
 209 Post Street, San Francisco.
 William Kenny,
 Flood Building, San Francisco.
 John William Peck,
 2486 Shattuck Avenue, Berkeley.
 Oscar Charles Reeve,
 556 W. 113th Street, New York City,
 N.Y.
 Louis Xavier Ryan,
 209 Post Street, San Francisco.
 George Samuel Snyder,
 210 Post Street, San Francisco.
 Eldridge Curtis Turner,
 1830 21st Street, Sacramento.
 John Irving Vickerson,
 1551 8th Street, Oakland.

1906

*Alexander Adler.
 Olive Violet Brasier,
 The Helena, Helena, Montana.
 Antonio Menotti dal Piaz,
 R.F.D. No. 3, Stockton.
 Sydney Roy Dannenbaum,
 Physicians' Building, San Francisco.
 Alexander Vincent Doran,
 427 Sacramento Street, Vallejo.
 William Cooper Eidenmuller, Jr.,
 948 Market Street, San Francisco.
 John Henry Franklin,
 Guadalupe.
 Samuel Percy Hardy.
 Wilfred Bertram Hays,
 Sonoma.
 George Graham Hunter,
 356 So. Occidental Blvd., Los Angeles.
 Louise Mary Igo,
 1525 L. Street, Sacramento.
 Charles Breckenfield Jones,
 1021 10th Street Sacramento.
 Herman Kronenberg,
 177 Post Street, San Francisco.
 David Joseph Mahan,
 Fort Jones, Siskiyou County.
 Richard Leon Ochsner,
 3116 16th Street, San Francisco.
 Waid James Stone,
 San Rafael.
 Jackson Temple,
 541 Fourth Avenue, Santa Rosa.

*Deceased.

Joseph Thomas Wrenn,
 Placerville.
 Reuben Sylvester Zumwalt,
 2623 Mission Street, San Francisco.

1907

Archie Addison Alexander,
 1307 Broadway, Oakland.
 Frederick Madison Allen,
 Rockefeller Institute, New York City,
 N.Y.
 Elmer Wiley Bingaman,
 Gonzales.
 Wilfred Everett Bixby,
 Sebastopol.
 John Aloysius Clark,
 22 Martin Street, Gilroy.
 *Lloyd Alexander Craig.
 William Calhoun Dawson,
 Whitney Building, San Francisco.
 Cornelius Thomas Devine,
 First Savings Bank Bldg., Oakland.
 *Thomas Garfield Dodds.
 Walter Orrin Howell,
 720 Farrington Lane, Burlingame.
 James Harvey Johnston,
 291 Geary Street, San Francisco.
 Anna Maria Gutzwiller MacBean,
 820 S. Hoover Street, Los Angeles.
 Romilda Paroni Meads,
 2612 Parker Street, Berkeley.
 Earl Emmet Ostrom,
 Loomis, Placer County.
 *Charles Arthur Pauson,
 Edward August Peterson,
 321 Georgia Street, Vallejo.
 Mehitabel Clara Proctor,
 Ahmednagar, India.
 Otto Theodore Schulze,
 Migliavacca Building, Napa.
 Gifford Lyne Sobey,
 13th and Pine Streets, Paso Robles.
 Middleton Pemberton Stansbury,
 Vacaville.
 Thomas Albion Stoddard,
 291 Geary Street, San Francisco.
 Florence Mabel Sylvester,
 119 13th Street, Oakland.
 Gavin James Telfer,
 Union League Building, Los Angeles.
 Allen Moore Walcott,
 304 Caixa Street, Manaus, Brasil, S.A.

1908

Lela June Beebe,
Woodland.
LeRoy Hewitt Briggs,
240 Stockton Street, San Francisco.
Alexander Sterling Bunnell,
516 Sutter Street, San Francisco.
Sanford Warren Cartwright,
817½ 10th Street, Modesto.
Harry Emerson Foster,
Cutter Laboratory, Berkeley.
Frank Edward Frates,
210 Post Street, San Francisco.
Louis Philippe Howe,
Flood Building, San Francisco.
Samuel Nicholas Jacobs,
209 Post Street, San Francisco.
Shin Five Pond Moar Jee,
Tientain, China.
Hans Coford Johnson,
516 Sutter Street, San Francisco.
Frederick Clinton Lewitt,
Butler Building, San Francisco.
Thomas Drummond Mansfield.
Albert Manson Meads,
2612 Parker Street, Berkeley.
Lester Newman,
525 Market Street, San Francisco.
Alvin Powell,
31st and Grove Streets, Oakland.
Robert Thomas Sutherland,
1215 E. 14th Street, Oakland.

1909

Herbert Jacob Cohn,
Flood Building, San Francisco.
Margaret White Cutting,
State Hospital, Agnew.
Charles Leland McVey,
329 Warwick Avenue, Oakland.
Wallace Longfellow Meyers,
5th and L Streets, Livermore.
Howard Christian Naffsiger,
291 Geary Street, San Francisco.

1910

Marion Osgood Hooker,
3277 Pacific Avenue, San Francisco.
Wilbur Henry Irwin,
1050 W. 27th Street, Indianapolis, Ind.
Seely Frederick Long, Jr.,
1 Broderick Street, San Francisco.

*Deceased.

Chester Biven Moore,
291 Geary Street, San Francisco.

1911

Walter Isaac Baldwin,
135 Stockton Street, San Francisco.
Eldridge John Best,
209 Post Street, San Francisco.
Lloyd Bryan,
135 Stockton Street, San Francisco.
William Howard Campbell,
San Marcos Building, Santa Barbara.
Kate Rawlinson Gomperts,
Berkeley Bank Building, Berkeley.
Howard Hill Markel,
135 Stockton Street, San Francisco.

1912

*Samuel Ellsworth Bailey.
Henry Chesley Bush,
Arroyo Sanatorium, Livermore.
Ernest Winton Cleary,
177 Post Street, San Francisco.
Linwood Dosier,
Elks Building, Stockton.
Carl Leslie Hoag,
177 Post Street, San Francisco.
Frank Lewis Kelly,
State Hygienic Laboratory, Berkeley.
Herbert Everett Long,
21 Buena Vista Avenue, San Francisco.
Dewey Robert Powell,
Farmers' and Merchants' Bank Bldg.,
Stockton.
Lionel David Prince,
Flood Building, San Francisco.
Ellen Smith Stadtmuller,
819 Eddy Street, San Francisco.
Clifford Daniel Sweet,
440 Seventeenth Street, Oakland.

1913

Warren Barrett Allen,
Central Park Building, Oakland.
Daniel Irwin Aller,
3703 Platt Avenue, Fresno.
Joseph Henry Catton,
240 Stockton Street, San Francisco.
Earl Hamilton Cornell,
1051 Bella Vista Avenue, Oakland.
Richard Warren Harvey,
135 Stockton Street, San Francisco.

Selby Harold Marks,
Pittsburg.
Ruth Charlott Risdon Storer,
2804 Piedmont Avenue, Berkeley.
Charles Lee Tranter,
240 Stockton Street, San Francisco.

1914

Roy Charles Abbott,
Ann Arbor, Michigan.
Edna Locke Barney,
306 Irving Street, San Francisco.
Frank Stanley Baxter,
Brockington Ct., Grass Valley.
Hugh Kling Berkley,
801 Brockman Building, Los Angeles.
Edward Cline Bull,
U. C. Hospital, San Francisco.
Ruby Lacy Cunningham,
2707 Parker Street, Berkeley.
Henry Ehlers,
Fowler.
Elisabeth Grace Lewis,
Ambala, Panjab, India.
George Warren Pierce,
Phelan Building, San Francisco.
Albert Homes Rowe,
Hutchinson Building, Oakland.
Fred Nicholas Scatena,
601½ K Street, Sacramento.

1915

Irvin H. Betts,
Visalia.
Gordon Adams Clapp,
Lindsey.
Abelson Epstein,
Phelan Building, San Francisco.
Aaron Friedman,
516 Sutter Street, San Francisco.
Clain Fanning Gelston,
U. C. Hospital, San Francisco.
Henry Leopold Holsberg,
890 Geary Street, San Francisco.
*George Arneke Kretsinger.
Fred Herman Kruse,
240 Stockton Street, San Francisco.
Alice Freeland Maxwell,
U. C. Hospital, San Francisco.
John Morse Rehfish,
U. C. Hospital, San Francisco

Homer Carlton Seaver,
U. C. Hospital, San Francisco.
Clarence Edgar Wells,
Sugar Pine, Madera County.
John Homer Woolsey,
U. C. Hospital, San Francisco.

1916

William Edward Chamberlain,
391 Sutter Street, San Francisco.
Elton Ralph Charvos,
Humboldt, Arizona.
Enos Paul Cook,
Bank of Italy Building, San Jose.
Dunnleigh Corey,
U. S. Naval Station, Pearl Harbor,
Hawaii.
Brython Parry Davis,
% U.S.N.
Thomas Balfour Mackie Dunn,
% U.S.N.
Orville Roscoe Goss,
% U.S.N.
Mabel Florence Arrington Geddes,
Bacon Building, Oakland.
Elisabeth Worley Bailie Goldsworthy,
2405B N. Street, Sacramento.
Herold Pittman Hare,
1211 Baker-Detwiler Bldg., Los Angeles.
Charles Daniel Holliger,
Commerical and Savings Bank Building,
Stockton.
Warren Douglas Horner,
% U.S.N.
Maurice Jones,
Sherwood Building, Spokane, Wash.
Frederick George Linde,
Mare Island Naval Hospital.
Charles Pierre Louis Mathe,
Phelan Building, San Francisco.
Laird Monterey Morris,
1731 Arch Street, Philadelphia, Pa.
Myrl Morris,
240 Stockton Street, San Francisco.
Robert Reid Newell,
Memorial Laboratory and Clinic, Santa
Barbara.
Joseph Allen Owen, Jr.,
Weindieck Building, Red Bluff.
Frank William Pinger,
Camp Hospital, Camp Grant, Ill.

*Deceased.

Jacob Leroy Pritchard,
424 Twohy Street, San Jose.
John Carroll Ruddock,
1336 S. Main Street, Los Angeles.
Margaret Schults,
U. C. Hospital, San Francisco.
Henry Hunt Searls,
U. C. Hospital, San Francisco.
Julius Sherman,
350 Post Street, San Francisco.
Robert Stanton Sherman,
350 Post Street, San Francisco.
William Ben Thompson,
728 S. Berendo Street, Los Angeles.
Marshall Gould Williamson,
Upland.
Mary Craig Williamson,
Box 203, Upland.

1917

Frank Philip Brendel,
Physicians' Building, Sacramento.
Pini Joseph Calvi,
San Francisco Hospital, San Francisco.
Allan Lareess Cohn,
240 Stockton Street, San Francisco.
Mendel Leopold Cohn,
2630 Piedmont Avenue, Berkeley.
Orrin Simeon Cook,
U. C. Hospital, San Francisco.
Charles Alfred Craig,
Lakeport.
Jewel Fay,
Livermore Sanitarium, Livermore.
Howard Webster Fleming,
471 E. Santa Clara Street, San Jose.
William Christensen Frey,
U. C. Hospital, San Francisco.
James Ernest Harvey,
Hammonton.
Robert Harold Heaney,
Weed.
Mervyn Heller Hirschfeld,
731 Duboce Avenue, San Francisco.
Merrill Windsor Hollingsworth,
Westwood.
Horace Hoagland McCoy,
First National Bank Bldg., Long Beach.
*Emma Mehlmann.
Hiram Edgar Miller,
135 Stockton Street, San Francisco.

Vinton Adolf Muller,
Reno, Nevada.
Hugh Elmer Penland,
606 Berkeley Bank Building, Berkeley.
Alma Stevens Pennington,
Rush Medical School, Chicago, Ill.
Elisabeth Schulse,
U. C. Hospital, San Francisco.
Lewis Seligman,
Johns Hopkins Univ., Baltimore, Md.
Alson Anderson Shufelt,
U. C. Hospital, San Francisco.
Daniel Warren Sooy,
2119 Clinton Avenue, Alameda.
William Wallace Washburn,
240 Stockton Street, San Francisco.
John Chilton Williams,
652 Fell Street, San Francisco.
Elmo Russell Zumwalt,
Tulare.

1918

The degree of M.D. was not conferred Commencement, 1918, on account of the transition from the four-year to the five-year curriculum.

1919

*Mary Isabelle Armstrong,
Thomas Floyd Bell,
206 Forsyth Building, Fresno.
Charles Barrows Bennett,
Mt. Zion Hospital, San Francisco.
Robert Wilson Binkley,
U. C. Hospital, San Francisco.
*Florence Josephine Chubb.
Frederick Carl Cordes,
Butler Building, San Francisco.
*Henry Chipman Dodge.
Charles Louis Freytag,
1204 Sutter Street, San Francisco.
Walter Herbert Frolich,
330 Willard Street, San Francisco.
Mary Hill Fulstone,
Wellington, Nevada.
Cavins Deter Hart,
240 Stockton Street, San Francisco.
Harold Homer Hitchcock,
135 Stockton Street, San Francisco.
William Patrick Joseph Lynch,
Commercial and Savings Bank Building,
Stockton.

*Deceased.

John Gray McQuarrie,
2899 Jackson Street, San Francisco.
Sidney Olsen,
2186 California Street, San Francisco.
Ralph Rabinowits,
1714 Steiner Street, San Francisco.
Ethel Lucia Righetti,
305 Walnut Street, San Francisco.
Homer Righetti,
305 Walnut Street, San Francisco.
William Dan Sink,
Guadalupe.
William Otto Solomon,
Ione.
Laurence Tausig,
135 Stockton Street, San Francisco.
Fletcher Brandon Taylor,
177 Post Street, San Francisco.

1920

Philip Howard Arnot,
U. C. Hospital, San Francisco.
Dorothy Wells Atkinson,
Children's Hospital, San Francisco.
Thomas Fred Ayers,
1006 Page Street, San Francisco.
Arthur Elmer Belt,
1330 6th Avenue, San Francisco.
Myron Murray Booth,
U. C. Hospital, San Francisco.

Edwin Louis Bruok,
St. Helena.
Ruth Burr,
2015 M. Street, Sacramento.
Alma Locke Cooke,
3510 Magnolia Avenue, Oakland.
Randolph Davis.
Charles Beebe Fowler,
San Francisco Hospital, San Francisco.
Mervyn Francis Frandy,
San Francisco Hospital, San Francisco.
Lloyd Elliott Hardgrave,
350 Post Street, San Francisco.
Charles Edward Locke,
Peter Bent Brigham Hospital,
Boston, Mass.
Frederick George Maggs,
55 Alpine Tr., San Francisco.
Robert Carson Martin,
U. C. Hospital, San Francisco.
Belle Ellingsen Merrill,
685 36th Street, Oakland.
Oscar Kempfer Mohs,
San Francisco Hospital, San Francisco.
Lois Pendleton,
245 So. Kingsley Drive, Los Angeles.
Alverda Elva Reische,
Children's Hospital, San Francisco.
Bert Stanford Thomas,
1376 3rd Avenue, San Francisco.
Harold Guyon Trimble,
386 Oakland Avenue, Oakland.

REGISTER—PART X

LOS ANGELES MEDICAL DEPARTMENT

A SCHOOL FOR GRADUATES OF MEDICINE

DECEMBER, 1920

LOS ANGELES MEDICAL DEPARTMENT

A SCHOOL FOR GRADUATES OF MEDICINE

DAVID P. BARROWS, Ph.D., LL.D., President of the University.

GEORGE H. KRESS, B.S., M.D., Dean of the Faculty.

(The complete list of officers of instruction in the Los Angeles Medical Department is contained in the separate announcement of the department, obtainable from Dr. George H. Kress, 245 Bradbury Building, Los Angeles.)

The Los Angeles Medical Department of the University of California is an institution offering instruction to graduates of medicine only. The undergraduate medical work of the University is carried on at Berkeley and at San Francisco.

The Los Angeles Medical Department traces its origin to the institution of a college of medicine by the University of Southern California in 1886. From that date until February of 1909 it remained a medical department of the University of Southern California, but in the later year its property was transferred to the University of California.

In order not to duplicate the expense of undergraduate teaching, it was decided in 1914 to confine the work of the Los Angeles Medical Department to instruction of graduates of medicine only. The aim of the work is to permit graduates to review past studies, or to pursue courses which would keep them in touch with the recent advances in medicine.

The courses offered come under two major heads:

1. The Purely Clinical Courses.

In these courses the practitioner attends the dispensary and hospital clinics and, without any obligations on the part of the instructors to give special didactic instruction, follows the clinical work in the dispensary and hospital, and obtains therefrom such knowledge and experience as is possible.

2. The Courses in the Specialties.

The work under this heading will be both clinical and didactic. The didactic work will go into considerable detail, but the courses which will be offered will be of different types, according to the capacity of the student to profit therefrom.

The clinical work will give the student opportunity to work with patients in the dispensary and at the bedside, so that he may acquire proper methods of technique, and that experience that will enable him

in his particular line of work, to have a greater knowledge and capacity than his fellow in general practice.

The purely clinical courses in the dispensary and the courses for specialists can be entered at any time and the work will be so arranged that the practitioner can devote practically the whole day to his work.

All legally licensed practitioners of the United States will be eligible for admission to these courses, this work being construed to be an expression of the general extension work of the University.

Certificates.—Certificates of attendance will be granted only to those who pursue courses covering a period of at least three months, and these certificates will be certificates of attendance only.

Students pursuing all-day courses of at least three months, and who give notice of a desire to have a certificate of proficiency, must take an examination at the close of their work to determine whether such a certificate of proficiency can be granted.

Fees.—The fees will be nominal, but in all didactic work there must be at least three students in the class, and if there be a smaller number the fees for such work must equal the total of the tuition which would have been received from at least three students.

The facilities for work at Los Angeles are very great, the city itself being given a population of 576,673 by the recent decennial census. No city in the United States has shown the marvelous increase of population as has Los Angeles in the last several decades.

The Graves Memorial Dispensary is located in the buildings of the department on North Broadway, between Ord and Alpine streets, which property extends from North Broadway to Castelar street. The street address of the main building is 737 North Broadway. The telephone is Broadway 4538.

These buildings offer commodious and well equipped quarters for clinics which handle a total of more than thirty thousand patients yearly.

The Barlow Medical Library, adjacent to the college, has on file all the current American and foreign journals and textbooks.

At the Los Angeles County Hospital this department has access to about fifteen hundred beds for bedside instruction. Daily clinics are held at the County Hospital.

The practitioner can, therefore, spend the hours from 8 to 11 at the County Hospital; the hours from 12 until 3, or later, at the dispensary; and 4 to 5, at the Barlow Medical Library, which is attached to the institution.

The catalogue of the department covering the requirements for admission, fees, courses, etc., may be had by writing to the Dean of the department, Dr. George H. Kress, 245 Bradbury Building, Los Angeles, California.

REGISTER—PART XI

**ANNOUNCEMENT OF THE
SOUTHERN BRANCH**

**FOR THE
ACADEMIC YEAR, 1920-21**

OUTLINE OF ANNOUNCEMENT PUBLISHED

JULY, 1920



UNIVERSITY OF CALIFORNIA

ANNOUNCEMENT
OF THE
SOUTHERN BRANCH
FOR THE
ACADEMIC YEAR 1920-21

UNIVERSITY OF CALIFORNIA

1920

Letters of inquiry concerning the University in general should be addressed to the *Recorder of the Faculties, Berkeley, California*.

Inquiries concerning the Southern Branch should be addressed to the *Director, Southern Branch of the University of California, Los Angeles, California*.

For the list of bulletins of information concerning the several colleges and departments see page 2 of the cover.

In writing for information, please mention the college, department, or study in which you are chiefly interested.

CALENDAR, 1920-1921

1920

September 10, Friday	}	Registration of new students.
September 11, Saturday		
September 13, Monday		Registration of old students.
September 14, Tuesday		Instruction begins at 9 A.M.
November 25, Thursday	}	Thanksgiving recess.
November 27, Saturday		
December 27, Monday	}	Christmas recess.
January 1, Saturday		

1921

January 15, Saturday—Semester closes.

January 24, Monday—Registration of students for the second half-year.

March 23, Wednesday—Charter Day.

March 28, Monday	}	Spring vacation.
April 2, Saturday		

June 11, Saturday—Semester closes.

June 20, Monday	}	Summer Session of the Academic Colleges in Los Angeles and Berkeley.
July 30, Saturday		

CIRCULAR OF INFORMATION

I. THE UNIVERSITY

INTRODUCTION

The following general information concerning the University is important for students in all of its branches and is, therefore, published for the guidance of those interested in the Southern Branch.

HISTORY

The establishment of the University of California in 1868 came as the result of three separate movements—one originating in private initiative, one in state action, and one in federal action.

Private action owed its inception to the foresight of Rev. Henry Durant. In 1853, under the auspices of the Presbytery of San Francisco, and of the Congregational Association of Oakland, Mr. Durant opened in Oakland the "Contra Costa Academy," soon changed to the name of "College School," in order to signify that the undertaking was only preparatory to a projected college. In 1855, such an institution was incorporated under the name of "College of California." In 1860 that college was formally opened and classes were graduated from 1864 to 1869 inclusive. The instruction was given in buildings in Oakland, but in 1856 a tract of land was secured five miles to the north, and in 1866 the name of Berkeley was given to the townsite about the college campus.

State action had its start in the Constitutional Convention of 1849, which incorporated into the fundamental law recognition of and provision for a state university. There was constant public agitation down to 1868 for making the provisions effective.

Federal action began in 1853 when Congress gave the state 46,000 acres of land for a "seminary of learning." A further impulse was given in 1862 by the passage of the Morrill Act for the establishment of an Agricultural, Mining and Mechanical Arts College.

In 1867 these three forces began working together to one end—the establishment of a University of California, the private enterprise known as the College of California throwing in its buildings and four blocks of land in Oakland and its 160 acres of land in Berkeley, the federal government, the Congressional gift of 150,000 acres of public lands, and

the state, its property accumulated for the purpose, together with new legislative appropriations. The University of California was formally organized on March 23, 1868.

The University of California is governed by a Board of Regents of twenty-four members, sixteen of whom are appointed by the Governor and hold office for sixteen years, and eight are ex-officio in character and tenure. The internal management is in the hands of the President and Academic Senate, consisting of the faculties and instructors of the University.

The first appointee to the Presidency was Henry Durant (1869-72), followed by Daniel Coit Gilman (1872-75), John LeConte (1875-81), William T. Reid (1881-85), Edward S. Holden (1885-88), Horace Davis (1888-90), Martin Kellogg (1890-99), Benjamin Ide Wheeler (1899-1919), and David Prescott Barrows (1920-).

In 1896 a movement, which had been undertaken for a permanent and comprehensive building plan on the Berkeley campus, was taken over and financed by Mrs. Phoebe Apperson Hearst. The ultimate plan was selected after two international competitions. A large group of buildings has already been erected on the site, partly from private donations and partly from state appropriations and bond issues.

The Southern Branch of the University of California was established by an act of the Legislature which went into effect July 24, 1919. On that date the Regents of the University assumed control of the grounds, buildings, and equipment of the institution theretofore known as the Los Angeles State Normal School.

For *Departments and Organization of the University*, see pages 11, 12 and 13 of the Circular of Information, which is Part I of this Register.

UNDERGRADUATE CURRICULA

The courses of instruction offered at the Southern Branch for the year 1920-21 are of two general types, as indicated below:

I. Curricula leading to teachers' certificates:

- (a) Two-year courses leading to the Elementary Teacher's Certificate or the Kindergarten-Primary Certificate.
- (b) Three-year courses leading to the Special Elementary Certificate in Commerce, Household Arts, Manual and Fine Arts, Music, or Physical Education.
- (c) Four-year courses, leading to the Special Secondary Certificate in Commerce, Household Arts, Manual and Fine Arts, Music, or Physical Education.

II. Junior College Curricula:

Instruction covering the work of the first two years only, of the following seven colleges at Berkeley, in each of which there is an undergraduate curriculum of four years, leading directly, under conditions hereinafter stated, to a bachelor's degree, as follows:

The College of Letters and Science: to the degree of Bachelor of Arts.

The Colleges of Applied Science	{	to the degree of Bachelor of Science:
		in the College of Commerce;
		in the College of Agriculture—in any one of the following: agricultural science, agronomy, animal industries, forestry, horticulture, landscape gardening;
		in the College of Mechanics—(1) in mechanical engineering, or (2) in electrical engineering, or (3) in marine engineer- ing and naval architecture, or (4) in aerodynamics;
		in the College of Mining—(1) in mining, or (2) in metallurgy, or (3) in economic geology, or (4) in petroleum engineering;
		in the College of Civil Engineering—(1) in railroad engineer- ing, or (2) in sanitary engineering, or (3) in irrigation engineering;
		in the College of Chemistry—(1) in chemistry, or (2) in chemical engineering.

There are permitted, in addition, courses at large and partial courses, not leading directly to any degree, but through each of which, by compliance with the conditions upon which it is conferred, credit toward a degree may be acquired.

The University has no preparatory department.

PROFESSIONAL CURRICULA

At Berkeley also are the Schools of

Architecture, leading to the degree of Graduate in Architecture;

Education, leading to the degree of Graduate in Education and to the high school teacher's recommendation;

Jurisprudence, leading to the degree of Juris Doctor;

Medicine, first year and part of the second year of the five-year curriculum leading to M.D. (the remainder of the work is given in San Francisco);

and the curricula in

Public Health—three curricula, each leading to the degree of Graduate in Public Health; two of these are given wholly at Berkeley and the third (for candidates for M.D. and Gr.P.H.) is in part at Berkeley and in part in San Francisco;

Home Economics, leading to the degree of Bachelor of Arts in the College of Letters and Science, with a major subject in Household Art or in Household Science.

The work of the Medical School (except that of the first year and part of the second year, as above), of the California College of Pharmacy, of the Hastings College of the Law, and of the College of Dentistry is conducted in San Francisco. The first year of work in the Schools of Education and Medicine, the first year of the three-year curriculum in the School of Jurisprudence, the first and second years in the School of Architecture, and the first and second years of the four-year curriculum in Jurisprudence, may be credited towards the degree of Bachelor of Arts in the College of Letters and Science. The work so credited is regarded as academic, rather than as purely professional in character, and the student pursuing this work is enrolled not only in the appropriate school or curriculum but also in the College of Letters and Science, and is subject to all the regulations of that college.

In like manner, students in the several curricula in Public Health may be simultaneously candidates for the professional degree of Gr.P.H. and also for the degree A.B. (College of Letters and Science), B.S. (College of Civil Engineering), or M.D. (Medical School).

For *Admission to the University, Preparatory Work Required and Recommended*, and *Preparation for the Various Curricula*, see pages 17-32 of the Circular of Information, which is Part I of this Register.

MATRICULATION EXAMINATIONS AT LOS ANGELES

Applicants desiring to take matriculation examinations in Los Angeles may pass those conducted by the College Entrance Examination Board, see pages 20 and 21 of the Circular of Information, which is Part I of this Register.

Points on the Pacific Coast at which examinations are usually held are as follows: Los Angeles, Berkeley, Nordhoff, Stanford University, Portland, Seattle, Spokane, Tacoma.

II. THE SOUTHERN BRANCH

INTRODUCTION

The following brief statements regarding the Southern Branch of the University are of interest to all who are in any way connected with it or with the parent institution.

HISTORY

In March, 1881, the Los Angeles State Normal School was established by legislative act. A five-acre site at the corner of Fifth and Grand avenue was secured and the corner stone of the first building was laid December 17, 1881. The school opened in August, 1882, with a faculty of three members and an enrollment of sixty-one students.

The original site and buildings having become inadequate for the growing needs of the institution, in 1907 the Legislature authorized the sale of the property, and in 1911 made an appropriation for the purchase of a more suitable location. In the following year the present site, a campus of twenty-four acres (later increased to twenty-five) was purchased, and on November 18, 1913, the corner stone of the principal building, Millspaugh Hall, was laid. In September, 1914, the school occupied the new group of buildings.

By an act of the Legislature which became effective July 24, 1919, the Los Angeles State Normal School became the Southern Branch of the University of California. The Regents of the University assumed control of the grounds, buildings and equipment and Dr Ernest C. Moore was appointed Director of the Southern Branch of the University of California.

This act provided for continuance of teacher training courses then being given and for the institution of freshman and sophomore work of the University.

SITE AND BUILDINGS

The campus of the Southern Branch of the University of California is bounded by Vermont avenue, Monroe street, Heliotrope drive, and Willowbrook avenue. The ten buildings which form the group are in a style of architecture reminiscent of the Lombardy style found in northern Italy. The Southern California Chapter of the American Institute of Architects awarded the group its first annual medal.

CLIMATE

The climate of Los Angeles is essentially maritime and is therefore well suited to college work at all seasons of the year. The mean annual temperature is 62 degrees F. August, the warmest month, has a mean temperature of 71 degrees F. The coldest month is January, the mean temperature of which is 54 degrees F. The high percentage of sunshine and the invigorating sea breezes, are conducive to both physical and mental vigor.

ADMINISTRATIVE OFFICERS

DAVID PRESCOTT BARROWS, Ph.D., LL.D., President of the University.

ERNEST CARROLL MOORE, Ph.D., LL.D., Director of the Southern Branch of the University of California.

ADVISORY ADMINISTRATIVE BOARD, SOUTHERN BRANCH, UNIVERSITY OF CALIFORNIA:

ERNEST C. MOORE, Ph.D., LL.D., Chairman,

MONROE E. DEUTSCH, Ph.D.,

BALDWIN M. WOODS, Ph.D.,

THE COMPTROLLER OF THE UNIVERSITY.

CLOYD HECK MARVIN, Ph.D., Assistant Director and Assistant Professor of Commerce.

HELEN MATTHEWSON LAUGHLIN, Counselor of Women.

MABEL NETTLETON, Registrar.

MARIE CRAIG, Recorder.

LILLIAN RAY TITCOMB, M.D., Physician for Women.

M. BURNEY PORTER, Appointment Secretary.

ELIZABETH H. FARGO, Librarian.

ELIZABETH P. STURTEVANT, Assistant Librarian.

BEATRICE HOLLOWAY, Library Assistant.

ESTELLA D. LAKE, Library Assistant.

BEATRICE MCLEAN, Library Assistant.

FACULTY

JOHN MEAD ADAMS, Ph.D., Associate Professor of Physics.

EVA M. ALLEN, Instructor in Commercial Practice.

HERBERT F. ALLEN, Ph.D., Assistant Professor of English.

SARAH ATSATT, M.S., Instructor in Biology.

MABEL BARNHART, Instructor in Music.

*KATHLEEN S. BECK, B.S., Instructor in Geography.

* Absent on leave, 1920-21.

- FREDERICK E. BECKMAN, Ph.D., Assistant Professor of French.
FREDERIC T. BLANCHARD, M.A., Associate Professor of English.
FOSS R. BROCKWAY, Instructor in Mechanic Arts.
ANNA P. BROOKS, A.B., B.S., Instructor in Fine Arts.
MARGARET M. CAMPBELL, B.S., Training School Teacher in charge of the Ninth Grade.
MARGARET CARHART, M.A., Associate in English.
FORD ASHMAN CARPENTER, LL.D., Lecturer in Meteorology.
A. G. W. CERF, M.A., Litt.D., Lecturer in French.
HELEN C. CHANDLER, Instructor in Fine Arts.
ORABEL CHILTON, B.S., Associate in Home Economics.
KATHERINE CLOSE, M.D., Lecturer in Physical Education.
*MYRTIE COLLIER, B.S., Assistant Professor of Mathematics.
FREDERICK W. COZENS, M.A., Assistant Professor of Physical Education.
W. R. CROWELL, Ph.D., Assistant Professor of Chemistry.
S. H. DADISMAN, Assistant Professor of Agricultural Education and Supervisor of Classes for Teachers in Agricultural Subjects.
MARVIN L. DARSIE, M.A., Assistant Professor of Education.
PIRIE DAVIDSON, M.A., Instructor in Zoology.
ANNITA DELANO, Instructor in Fine Arts.
MARY E. DOUGLASS, A.B., Assistant Teacher in the Kindergarten.
HAZEL DRAKE, Associate in Industrial Arts.
FRED M. ESSIG, Ph.D., Instructor in Botany and Bacteriology.
MAUD EVANS, Associate in Home Economics.
GRACE M. FERNALD, Ph.D., Assistant Professor of Psychology.
S. CAROLYN FISHER, Ph.D., Assistant Professor of Psychology.
LUCY M. GAINES, M.A., Instructor in History.
GEORGE W. GALBRAITH, Supervisor of Classes for Teachers of Trade and Industrial Subjects.
NELLIE H. GERR, Assistant Professor of Fine Arts.
HARRIET GLAZIER, M.A., Assistant Professor of Mathematics.
NORMA GOULD, Assistant in Gymnasium.
A. K. GRAY, M.A., Assistant Professor of English.
BARBARA GREENWOOD, Teacher in charge of the Kindergarten.
LUCILE R. GRUNEWALD, Instructor in Physical Education.
FLORENCE M. HALLAM, A.B., Instructor in Chemistry.
BESSIE E. HAZEN, A.B., Instructor in Fine Arts.
KATHERINE HEISEY, B.S., Instructor in Physical Education.
*FRED A. HOWE, LL.B., Ph.D., Assistant Professor of English.
ALICE O. HUNNEWELL, Instructor in English.
MABEL C. JACKSON, A.B., Training School Teacher in charge of the Seventh Grade.

* Absent on leave, 1920-21.

C. L. JACOBS, Associate Professor of Industrial Education and Supervisor of Classes for the Teaching of Trade and Industrial Subjects.

KATHERINE KAHLEY, A.B., Training School Teacher in charge of the Eighth Grade.

BLANCHE KELLS, Training School Teacher in charge of Physical Training.

HELEN B. KELLER, Supervisor of Adjustment Room.

FRANK J. KLINGBERG, Ph.D., Associate Professor of History.

ANNA KRAUSE, A.B., Associate in Spanish.

MELVA LATHAM, A.B., Assistant Professor of History.

ELIZABETH LATHROP, Associate in Home Economics.

C. A. LEDEUC, M.B.A., Ph.D., Assistant Professor of Accounting.

PAULINE LYNCH, Assistant in Home Economics.

MYRTA L. MCCLELLAN, B.S., Instructor in Geography.

ARTHUR P. MCKINLAY, Ph.D., Assistant Professor of Latin.

KATHERINE L. McLAUGHLIN, M.A., Associate Professor of Primary Education.

AGNES MACPHERSON, Associate in Home Economics.

HAROLD W. MANSFIELD, Assistant Professor of Mechanic Arts.

J. W. MARSH, Instructor in Mechanic Arts.

C. E. MARTIN, Ph.D., Assistant Professor of Government.

C. H. MARVIN, Ph.D., Assistant Professor of Commerce.

LOYE H. MILLER, Ph.D., Associate Professor of Biology.

ERNEST CARROLL MOORE, Ph.D., LL.D., Professor of Education.

WILLIAM CONGER MORGAN, Ph.D., Professor of Chemistry.

FRANK E. OLDER, B.S., Assistant Professor of the Teaching of Agriculture.

KATE F. OSGOOD, Assistant Supervisor of Practice Teaching.

GLADYS PALMER, A.B., Instructor in Physical Education.

ALMA M. PATTERSON, M.A., Instructor in Education.

W. A. PAXTON, Teacher of Manual Arts in the Training School.

J. B. PHILLIPS, Instructor in Mechanic Arts.

CARLYLE F. PIERSON, Instructor in Mechanic Arts.

ESTELLA B. PLOUGH, Instructor in Commercial Practice.

W. R. RHODES, Instructor in Industrial Practice.

*RACHEL RICHARDSON, Instructor in Industrial Art.

EDITH H. RINGER, Training School Teacher in charge of Third Grade.

EMMA J. ROBINSON, Training School Teacher in charge of Sixth Grade.

C. H. ROBISON, Ph.D., Instructor in Geography.

ADELAIDE ADAMS SAMUELS, Assistant to the Superintendent of Primary Training.

JOSEPHINE E. SEAMAN, Instructor in English.

G. E. F. SHERWOOD, M.A., Associate Professor of Mathematics.

H. M. SHOWMAN, E.M., M.A., Assistant Professor of Mathematics.

* Died May 23, 1920.

Mrs. B. K. SMITH, Associate in Industrial Arts.

LOUISE P. SOOY, Instructor in Fine Arts.

KATHERINE SPIERS, B.L., Training School Teacher in charge of Fourth Grade.

LULU M. STEDMAN, Training School Teacher in charge of Fifth Grade.

BENJAMIN F. STELTER, Ph.D., Assistant Professor of English.

NELLIE B. SULLIVAN, A.B., Instructor in Psychology.

FLORENCE SUTTON, Assistant in Tennis.

EVALYN THOMAS, A.B., Instructor in English.

CHARLES W. WADDLE, Ph.D., Associate Professor of Education, in charge of Training.

MARION H. WALLACE, Assistant Professor of Physical Education.

EDITH WALLOP, Training School Teacher in charge of Second Grade.

ETHEL B. WARING, M.A., Associate in Primary Education, and Superintendent of Primary Training.

BERTHA E. WELLS, Assistant Supervisor of Practice Teaching.

BELLE H. WHITICE, Instructor in Industrial Arts.

FLORENCE WILSON, A.B., B.S., Associate in Home Economics.

FRANCES A. WEIGHT, Assistant Professor of Music.

COURSES OF INSTRUCTION FOR THE YEAR 1920-1921**THE REGULAR JUNIOR COLLEGE COURSE OF TWO YEARS**

In accordance with the authorization of the State Legislature the Regents of the University of California have placed a limit of 250 for admission to the sophomore year and 500 to the freshman year of the junior college courses for the academic year 1920-1921.

In order to avoid possible failure to secure admission applicants should register with the Registrar as early as possible. Credentials should be filed as soon as they are obtainable from the school authorities, in order that they may be passed upon not later than September 10. A fee of two dollars is charged for late registration, i.e., registration after September 13.

The courses offered include all which are essential to the completion of the first two years' work of any of the colleges of the University located at Berkeley.

TEACHERS' CURRICULA

In accordance with the authorization of the State Legislature the Regents of the University of California have placed a limit of 1000 for admission to the teachers' courses.

In order to avoid possible failure to secure admission, applicants should register with the Registrar as early as possible. Complete credentials should be filed as soon as they are obtainable from school authorities, in order that they may be passed upon not later than September 2. A fee of two dollars is charged for late registration, i.e., registration after September 14.

The following courses will be offered:

1. A two-year course for the training of elementary teachers, which leads to recommendation for the elementary teachers' certificate.
2. A two-year course in preparation of candidates for the kindergarten-primary certificate.
3. Three-year curricula which meet the requirements of the State Board of Education for the elementary teachers' certificate and those of a special certificate in one of the following departments, viz: Fine Arts, Home Economics, Music, Mechanic Arts or Physical Education.
4. Four-year curricula leading to recommendation for special certification of secondary grade in Commerce, Household Arts, Music, Manual and Fine Arts, Physical Education.

ADVANCED WORK

Students who complete the regular two-year course for the elementary teachers' certificate have the opportunity to qualify for the intermediate school certificate (grades 7-9) by an additional year of resident work during which, in accordance with the rules of the State Board of Education, they must complete the following requirements:

Thirty semester hours of work, at least ten semester hours of which must be taken in each of two of the following subjects: English, mathematics, French, Spanish, Latin, social sciences, physical sciences, or biological sciences.

Opportunity will be afforded such students to do practice teaching in the University Intermediate School in the subjects of their choice. In a limited number of cases practice in supervision and administration may be afforded.

ADMISSON WITH ADVANCED STANDING

Applicants presenting credit earned in normal schools, colleges or universities, as well as those presenting evidence of successful experience in teaching covering a period of one or more years, will be given such advanced standing as individual cases merit.

Applicants for advanced standing should file credentials with the Committee on Advanced Standing.

TEACHING CREDENTIALS

Teachers' certificates are issued by county and city and county boards of education in accordance with the provisions of the Political Code of California, Section 1519a; Section 1771, Subdivision 3; Section 1775, Subdivision 1; and Section 1792. The Southern Branch of the University of California is empowered, under the provisions of Section 1507, Subsection 3 of the Political Code, and in accordance with rules laid down by the State Board of Education to grant recommendations for teachers' certificates, valid in this state, in each of the following grades: (1) Kindergarten-Primary, (2) Elementary, (3) Intermediate, (4) Special Elementary, (5) Special Secondary. Preliminary certificates, entitling the holder to do cadet teaching without salary, are also issued to student teachers upon recommendation of the Southern Branch. These certificates are granted under the following conditions:

1. Temporary Preliminary Certificates. (Valid for practice teaching without salary in such public school grades and subjects as may be indicated by the grade of certificate or definitely specified therein.)

No student teacher is permitted to teach in any public school without one of the following types of preliminary certificate. These may be arranged for by the Department of Practice Teaching:

- (a) Preliminary Certificate, Kindergarten.
- (b) Preliminary Certificate, Elementary.
- (c) Special Certificate, Elementary.
- (d) Special Certificate, Secondary.

2. The Kindergarten-Primary Certificate. (Valid in any public kindergarten or in the first grade of any elementary school of the state.)

- (a) The completion of the two-year kindergarten-primary curriculum.

3. The Elementary Teachers' Certificate. (Valid in the eight grades of the elementary schools.)

- (a) The completion of the two-year teachers' course.

4. The Intermediate School Teachers' Certificate. (Valid in grades seven, eight and nine when organized as intermediate schools.)

- (a) The recommendation of the University to the County Board of Education upon the completion of the two-year elementary teachers' curriculum and thereafter of thirty additional semester hours of college or teachers' course work at least twenty-two semester hours of which must be in two of the following subjects: English, mathematics, French, Spanish, Latin, social sciences, physical sciences, biological sciences.

5. Elementary Special Certificate. (Valid for special subjects only, in the eight grades of the elementary schools.)

- (a) The completion of the three-year teachers' curriculum in preparation of elementary teachers in one of the following special fields: Household Arts, Manual and Fine Arts, Music, Physical Education.

6. Secondary Special Certificate. (Valid for the special subjects in high schools.)

- (a) The completion of the four-year teachers' curriculum in preparation of secondary teachers of one of the following special types: commerce, household arts, manual and fine arts, music, physical education.

The Junior College curricula at the Southern Branch are identical with the freshman and sophomore years of the curricula in the various schools and colleges, pages 32 to 58 of the Circular of Information, which is Part I of this Register.

TEACHERS' CURRICULA**GENERAL ELEMENTARY****TWO-YEAR COURSE LEADING TO ELEMENTARY CERTIFICATE**

NOTE.—A term-hour or unit represents one period per week for one semester of eighteen weeks. For obtaining the Elementary Certificate 72 units distributed as follows, are required:

	Units
Biology T10 (Physiology) or T12 (Nature Study)	2
Economics C1a	3
Education T11 (Principles of Education)	3
Education T12 (Elementary Administration and School Law)	2
Education T113 (Educational Sociology)	3
English T10 or English T10b	3
Geography C1a	3
History T1a or T1b	3
Mathematics T10	2
Commerce T11b	1
Physical Education T10	2
Physical Education T11	2
Political Science C1a	3
Psychology C2A (Introductory)	3
Psychology C2b (Genetic)	3
Teaching 10	3
Teaching 11	5
Group Z	6

	Units
Art	2 (or more)
Agriculture	2 (or more)
Industrial Arts	2 (or more)
Music	2 (or more)
Physical Education	2 (or more)
Psychology CX (first term in attendance—16 lectures)	1
Assemblies (last term in attendance—5 meetings)	$\frac{1}{2}$
Recreation (2 hrs. per term, $\frac{1}{2}$ unit credit)	2
Special electives	6
Free electives	8 $\frac{1}{2}$

TEACHERS' COURSE—TWO-YEAR ELEMENTARY

SUGGESTED SCHEDULE

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
*Biology T12 or T10.....	2	*English T10 or English T10a.....	3
Economics C1A.....	3	†Group Z.....	4
Psychology Cx.....	1	*Mathematics T10.....	1
*Geography C1A.....	3	Physical Education T11.....	2
Commerce T11a.....	1	Political Science C1A.....	3
Physical Education T10.....	2	Psychology C2a.....	3
Psychology C2A.....	3	Recreation.....	†
Recreation.....	†		17½
Group 2.....	2		
	17½	<i>Fourth Semester</i>	
<i>Third Semester</i>		Assemblies.....	†
Education T11.....	3	Education T113.....	3
*History T1a or T1b.....	3	Education T12.....	2
Teaching 10.....	5	Teaching 11.....	5
Recreation.....	†	Recreation.....	†
Elective.....	7	Elective.....	7½
	18½		18½

KINDERGARTEN-PRIMARY COURSE

TWO-YEAR COURSE LEADING TO THE KINDERGARTEN-PRIMARY CERTIFICATE

NOTE.—For admission to the Kindergarten-Primary Course the applicant must show ability to play simple melodies, songs and marches upon the piano.

	Units
Psychology C2A. Introductory Educational Psychology	3
Psychology C2B. Genetic Psychology	3
Psychology CX	1
Education T11. Principles of Education	3
Education T12. Elementary Administration and School Law	2
Education T21. Introductory Kindergarten-Primary Education ..	2
Education T22. Kindergarten-Primary Curricula and Methods ..	5
Education T23. Kindergarten-Primary Practices	2
Education T25. Kindergarten-Primary Standards, Goals and Measurements	2
Teaching K-P10A and B. Kindergarten-Primary Teaching	10
Art and Industrial Arts T10	5
English T10A. Primary Reading	3
English T15B. Children's Literature	3

* Courses thus prefixed are alternative, due regard being had for prerequisites.

† GROUP Z—6 units must be taken

Art.....	2	Industrial Arts.....	2
Biology.....	2	Music.....	2
Home Economics.....	2	Physical Education.....	2

	Units
Mathematics T10A. Primary Number	2
Biology T12. Nature Study	2
Music T10A. Kindergarten-Primary Music	2
Commerce T11B	1
Physical Education T10	2
Physical Education T12A. Kindergarten-Primary Plays and Games	2
Recreation	2
Assemblies	$\frac{1}{2}$
Elective	$12\frac{1}{2}$
Total	72

KINDERGARTEN-PRIMARY ELECTIVES

(Nine units of elective work to be chosen from the following list or from teachers' courses offered in other departments.)

	Units
Education T24. Kindergarten-Primary Supervision	2
Education T26. History of Kindergarten-Primary Education ..	2
Education T27. Relationships of Kindergarten-Primary and Middle Grade Education	3
Physical Education T12B. Kindergarten-Primary Plays and Games	2
Music T10B	2
Art and Industrial Art T14B	2

SUGGESTED SCHEDULE

<i>First Semester</i>	Units	<i>Third Semester</i>	Units
Psychology C2A	3	Education T11	3
Psychology Cx	1	Education T22	5
Education T21	2	Elective	7
Education T26	2	Education T25	2
Art and Industrial Arts T10	5	Recreation	$\frac{1}{2}$
Music T10	2	Elective	1
Physical Education T10	2	Total	18$\frac{1}{2}$
Recreation	$\frac{1}{2}$		
Elective	1		
Total	18$\frac{1}{2}$		
<i>Second Semester</i>		<i>Fourth Semester</i>	
Biology T12	2	Education T12	2
Commerce T11B	1	Education T23	2
Psychology 2a	3	Teaching K-P10 and 11-10 .....	.....
English T10	3	Recreation	$\frac{1}{2}$
English	3	Assemblies	$\frac{1}{2}$
Mathematics T10A	2	Elective	$1\frac{1}{2}$
Physical Education T12	2	Total	16$\frac{1}{2}$
Elective	2		
Recreation	$\frac{1}{2}$		
Total	18$\frac{1}{2}$		

ART

Three lines of work in art are offered:

- I. Art Education.
- II. Drawing, Painting, and Illustration.
- III. House Design and Decoration.

The following fundamental courses are required of all who specialize in art: Design C17A, C17B, 11C; Drawing and Painting C22B; Art Application and History C1A, C1B.

I. ART EDUCATION

(Six Courses, A, B, C, D, E, and F)

- A. Three-Year Course. Elementary Fine Arts Certificate.
- B. Three-Year Course. Elementary Industrial Arts Certificate.
- C. Three-Year Course. Combination Fine and Industrial Arts Certificate.

Required—	Units
Professional.....	15
Physical Education including recreation.....	6
Theory and Practice of Teaching Art 14 Assembly.....	1
Technical.....	20

Elective—	
Technical (group 1 or 2).....	20
Free.....	28

103½

Required Technical

C1A-C1B Art Appreciation and History	2
C22A Constructive Drawing.....	2
C22B Drawing and Painting.....	2
C17A-C17B-C17C Design.....	6
T50A Art Crafts.....	2
C42A Lettering.....	2
T47A Stage Craft.....	2
	20

Elective Technical

(group 1 Fine Arts)

	Units
T6A Costume Appreciation and History of Costume.....	2
T56A Costume Design.....	2
C22C-C24A Drawing and Painting.....	4
T28B House Furnishing.....	2
T33A-T53A Illustration.....	4
T47B-T67A Stage Craft.....	4
T38A Landscape.....	2
	20

Elective Technical

(group 2 Industrial Arts)

	Units
T11 Industrial Art	2
T55A Basketry.....	2
T62A-T62B Bookbinding.....	4
T68A-T68B Clay Modeling and Pottery	4
C17C Design.....	2
T64A Leather.....	2
T65A Metal.....	2
T67A Weaving.....	2
	20

D. Three-Year Course. General Elementary and Fine Arts Certificates.

E. Three-Year Course. General Elementary and Industrial Arts Certificates.

Same as Course A or B with the following changes:

Add to required work 20 units.

Add Teaching General 5 units.

Reduce free elective from 28 units to 3 units.

F. One-Year Course for Secondary Art Certificate.

(For Graduates of A, B, C, D, or E.)

Required—	Units
Theory and Practice of Teaching Art 10	
Assemblies	4
Technical (group 1 or 2)	18
Elective—	
Free.....	6
	34½

II. DRAWING, PAINTING AND ILLUSTRATION (Commercial Art Certificate)

Three Years

Required—	Units
C1A-C1B Art Appreciation and History.....	4
T6A Costume Appreciation and History of Costume.....	2
T56A Costume Design.....	2
C17A-C17B Design.....	8
C22A-C22B-C24A { Drawing and	
T52B-T52C-T52D { Painting... 12	
T33A-T53A-T53B Illustration.....	6
T38A-T54A-T54B Landscape.....	6
C42A Lettering.....	2
C42B Lettering and Poster Design....	2
	44
Elective—	
Technical.....	30
Free.....	10
Total.....	84

Technical Courses

(group 1 Fine Arts Certificate)

	Units
C1C Art Appreciation and History.....	2
T50B Art Crafts.....	2
T56B Costume Design.....	2
C17D Design.....	2
T52B-T52C Drawing and Painting.....	4
T53B Illustration.....	2
T58A House Decoration.....	2
T54A Landscape.....	2
	18

Technical Courses

(group 2 Industrial Arts Certificate)

	Units
C1C Art Appreciation and History.....	2
T15A Art Crafts.....	2
T63A Bookbinding.....	2
T69A Clay Modeling and Pottery.....	2
C17A Design.....	2
T64B Leather.....	2
T65B Metal.....	2
T47B Stage Craft.....	2
T57B Weaving.....	2
	18

III. HOUSE DESIGN AND DECORATION (Certificate)

Three Years

Required—	Units
C1A-C1B-C1C Art Appreciation and History.....	6
T50A-T50B Art Crafts.....	4
C17A-C17B-C17C-C17D Design.....	8
C22A-C22B-C24A-T122D Drawing and Painting.....	8
T28A House Design.....	2
T28B House Furnishing.....	2
T58B-T58C-T58D House Decoration.....	6
C42A Lettering.....	2
T47A-T47B-T67A Stage Craft.....	6
	44
Elective—	
Technical.....	32
Free.....	8
Total.....	84

SUGGESTED SCHEDULES

I. ART EDUCATION A

FINE ARTS CERTIFICATE

Three Years

Required—	
Professional.....	15 units
Theory and Practice of Teaching Art.....	14 units
Physical Education.....	6 units
Assemblies.....	$\frac{1}{2}$ units
Technical.....	40 units
Elective—	
Free.....	28 units
Total.....	103$\frac{1}{2}$ units

<i>First Semester</i>	Units	<i>Fourth Semester</i>	Units
C1A Art Appreciation and History.....	2	T12B Art Methods.....	2
C17A Design.....	2	T28B House Furnishing.....	2
C22A Constructive Drawing.....	2	T33A Illustration.....	2
C42A Lettering.....	2	Teaching A10B.....	5
T47A Stage Craft.....	2	Recreation.....	$\frac{1}{2}$
Psychology X.....	1	Elective.....	6
Psychology C2A.....	3		
Recreation.....	$\frac{1}{2}$		
Elective.....	4		

18 $\frac{1}{2}$

<i>Second Semester</i>		<i>Fifth Semester</i>	
C1B Art Appreciation and History.....	2	T56A Costume Design.....	2
C17B Design.....	2	C17D Design.....	2
C22B Perspective.....	2	C24A Drawing and Painting.....	2
T6A Costume Appreciation and History.....	2	T67A Stage Craft.....	2
T38A Landscape.....	2	Physical Education T10.....	2
Psychology C2B.....	3	Elective.....	6
Recreation.....	$\frac{1}{2}$		
Elective.....	4		

16

17 $\frac{1}{2}$

<i>Third Semester</i>		<i>Sixth Semester</i>	
T12A Art Methods.....	2	T53A Illustration.....	2
C22C Drawing and Painting.....	2	Education T12.....	2
T47B Stage Craft.....	2	Education T53.....	2
T50A Art Crafts.....	2	Physical Education T11.....	2
Education T11.....	3	Assemblies.....	$\frac{1}{2}$
Teaching A10A.....	5	Electives.....	6
Recreation.....	$\frac{1}{2}$		
Elective.....	2		

18 $\frac{1}{2}$ 15 $\frac{1}{2}$

I. ART EDUCATION B

INDUSTRIAL ARTS CERTIFICATE

Three Years

Required—	
Professional.....	15 units
Theory and Practice of Teaching Art.....	14 units
Physical Education.....	6 units
Assemblies.....	$\frac{1}{2}$ units
Technical.....	40 units
Elective—	
Free.....	28 units
Total.....	103$\frac{1}{2}$ units

<i>First Semester</i>	Units
C1A Art Appreciation and History.....	2
T11 Industrial Arts.....	2
C17A Design.....	2
C22A Constructive Drawing.....	2
C42A Lettering.....	2
T47A Stage Craft.....	2
T62A Bookbinding.....	2
Education X.....	1
Psychology C2A.....	3
Recreation.....	$\frac{1}{2}$
	18$\frac{1}{2}$

<i>Second Semester</i>	
C1B Art Appreciation and History.....	2
C17B Design.....	2
C22B Perspective.....	2
T62B Bookbinding.....	2
Psychology C2B.....	3
Recreation.....	$\frac{1}{2}$
Elective.....	6
	18$\frac{1}{2}$

<i>Third Semester</i>	
T12A Art Methods.....	2
T50A Art Crafts.....	2
T68A Clay Modeling and Pottery.....	2
Teaching I10A.....	5
Education T11.....	3
Recreation.....	$\frac{1}{2}$
Elective.....	4
	18$\frac{1}{2}$

<i>Fourth Semester</i>	Units
T12B Art Methods.....	2
C17C Design.....	2
T68B Clay Modeling and Pottery.....	2
Teaching I10B.....	5
Recreation.....	$\frac{1}{2}$
Elective.....	6
	17$\frac{1}{2}$

<i>Fifth Semester</i>	
T64A Leather.....	2
Physical Education T10.....	2
Elective.....	12
	16

<i>Sixth Semester</i>	
T55A Basketry.....	2
T65A Metal.....	2
T57A Weaving.....	2
Education T12.....	2
Education T53.....	3
Physical Education T11.....	2
Assemblies.....	$\frac{1}{2}$
Electives.....	2
	15$\frac{1}{2}$

I. ART EDUCATION C

FINE ARTS AND INDUSTRIAL ARTS CERTIFICATES

Three Years

Required—

Professional.....	15 units
Theory and Practice of Teaching Art.....	14 units
Physical Education.....	6 units
Assemblies.....	1 unit
Technical.....	60 units

Elective—

Free.....	8 units
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Total.....103½ units

<i>First Semester</i>	Units	<i>Fourth Semester</i>	Units
C1A Art Appreciation and History.....	2	T12B Art Methods.....	2
C17A Design.....	2	C17C Design.....	2
C22A Constructive Drawing.....	2	T28B House Furnishing.....	2
C42A Lettering.....	2	T33A Illustration.....	2
T47A Stage Craft.....	2	T68B Clay Modeling and Pottery.....	2
T11 Industrial Arts.....	2	Teaching I10A.....	5
T62A Bookbinding.....	2	Recreation.....	1
Psychology Cx.....	1	Elective.....	2
Psychology C2A.....	3		
Recreation.....	1		
			17½

18½

Second Semester

C1B Art Appreciation and History.....	2
C17B Design.....	2
C22B Perspective.....	2
T6A Costume Appreciation and History.....	2
T38A Landscape.....	2
T62B Bookbinding.....	2
Psychology C2B.....	3
Recreation.....	1
Elective.....	2

17½

Third Semester

T12A Art Methods.....	2
C22C Drawing and Painting.....	2
T47B Stage Craft.....	2
T50A Art Crafts.....	2
T68A Clay Modeling and Pottery.....	2
Education T11.....	3
Teaching A10A.....	5
Recreation.....	1

18½

Fifth Semester

T56A Costume Design.....	2
C17D Design.....	2
C24A Drawing and Painting.....	2
T67A Stage Craft.....	2
T64A Leather.....	2
Physical Education T10.....	2
Elective.....	4

16

Sixth Semester

T53A Illustration.....	2
T55A Basketry.....	2
T65A Metal.....	2
T57A Weaving.....	2
Education T12.....	2
Education T53.....	3
Physical Education T11.....	2
Assemblies.....	1

15½

I. ART EDUCATION D

FINE ARTS AND GENERAL ELEMENTARY CERTIFICATES

Three Years

Required—

Professional.....	15 units
Theory and Practice of Teaching Art.....	19 units
Physical Education.....	6 units
Assemblies.....	1 units
Basals.....	20 units
Technical.....	40 units

Elective—

Free.....	3 units
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Total.....103½ units

<i>First Semester</i>	Units	<i>Fourth Semester</i>	Units
C1a Art Appreciation and History.....	2	T28a House Furnishing.....	2
C17a Design.....	2	T33a Illustration.....	2
C32a Constructive Drawing.....	2	T12a Art Methods.....	2
C42a Lettering.....	2	Physical Education T11.....	2
T47a Stage Craft.....	2	Geography C1c.....	3
Psychology Cx.....	1	Teaching 10A.....	5
Psychology C2a.....	3		
Recreation.....	1		16
Commerce T11a.....	2		
History T10.....	2		
	18½		

Second Semester

C1a Art Appreciation and History.....	2
C17a Design.....	2
C22a Perspective.....	2
T38a Landscape.....	2
T6a Costume Appreciation and History	2
Biology T12 or T10.....	2
English T10 or T10a.....	3
Psychology C2a.....	3
Recreation.....	1
	18½

Third Semester

C22c Drawing and Painting.....	2
T47a Stage Craft.....	2
T50a Art Crafts.....	2
T12a Art Methods.....	2
Physical Education T10.....	2
Education T11.....	3
Teaching A10A.....	5
	18

Fifth Semester

T56a Costume Design.....	2
C17b Design.....	2
C24a Drawing and Painting.....	2
T67a Stage Craft.....	2
Economics C1a.....	3
Mathematics T10.....	2
Recreation.....	1
Teaching A10a.....	5
	18½

Sixth Semester

T53a Illustration.....	2
Education T12.....	2
Education T113.....	3
Political Science C1a.....	3
Recreation.....	1
Assemblies.....	1
Electives.....	3
	14

I. ART EDUCATION E

INDUSTRIAL ARTS AND GENERAL ELEMENTARY CERTIFICATES

Three Years

Required—

Professional.....	15 units
Theory and Practice of Teaching Art.....	19 units
Physical Education.....	6 units
Assemblies.....	1 unit
Basals.....	20 units
Technical.....	40 units

Elective—

Free.....	3 units
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Total.....103½ units

First Semester	Units
C1A Art Appreciation and History.....	2
C17A Design.....	2
C22A Constructive Drawing.....	2
C42A Lettering.....	2
T47A Stage Craft.....	2
T11 Industrial Arts.....	2
T62A Bookbinding.....	2
Psychology CX.....	1
Psychology C2A.....	3
Recreation.....	1

18½

Second Semester

C1B Art Appreciation and History.....	2
C17B Design.....	2
C22B Perspective.....	2
T62B Bookbinding.....	2
T68B Clay Modeling and Pottery.....	2
Biology T12 or T10.....	2
English T10 or T10B.....	3
Psychology C2B.....	3
Recreation.....	1

18½

Third Semester

T12A Art Methods.....	2
T50A Art Crafts.....	2
Education T11.....	3
Physical Education T10.....	2
Teaching I10A.....	5
Elective.....	3

17

Fourth Semester	Units
T12B Art Methods.....	2
C17C Design.....	2
Geography C1C.....	3
Political Science C1A.....	3
Physical Education T11.....	2
Teaching 10A.....	5

17

Fifth Semester

C17D Design.....	2
T64A Leather.....	2
Economics C1A.....	3
History T10.....	2
Mathematics T10.....	2
Commerce T11B.....	2
Teaching I10B.....	5
Recreation.....	1

18½

Sixth Semester

T55A Basketry.....	2
T68B Clay Modeling and Pottery.....	2
T65A Metal.....	2
T57A Weaving.....	2
Education T12.....	3
Education T53.....	3
Recreation.....	1
Assemblies.....	1

14

I. ART EDUCATION F

SECONDARY CERTIFICATE

One Year

Required—

Theory and Practice of Teaching Art.....	10 units
Technical Group (1 Fine Arts or 2 Industrial Arts).....	18 units
Recreation.....	1 units
Assemblies.....	$\frac{1}{2}$ units

Elective—

Free.....	5 units
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Total..... 34 $\frac{1}{2}$ units

First Semester

(Group 1)

	Units
C1c Art Appreciation and History.....	2
T56b Costume Design.....	2
C17b Design.....	2
T52b Drawing and Painting.....	2
T54A Landscape.....	2
Teaching A60a.....	5
Recreation.....	$\frac{1}{2}$
Elective.....	2
	<hr/> 17 $\frac{1}{2}$

Second Semester

T52c Drawing and Painting.....	2
T58a House Decoration.....	2
T53b Illustration.....	2
T50b Art Crafts.....	2
Teaching A60b.....	5
Recreation.....	$\frac{1}{2}$
Elective.....	3
Assemblies.....	$\frac{1}{2}$
	<hr/> 17

First Semester

(Group 2)

	Units
C1c Art Appreciation and History.....	2
C17b Design.....	2
T47b Stage Craft.....	2
T63a Bookbinding.....	2
T65b Metal.....	2
T57b Weaving.....	2
Teaching A60a.....	5
Recreation.....	$\frac{1}{2}$
	<hr/> 17 $\frac{1}{2}$

Second Semester

T50b Art Crafts.....	2
T68b Clay Modeling and Pottery.....	2
T64b Leather.....	2
Teaching A60b.....	5
Recreation.....	$\frac{1}{2}$
Electives.....	5
Assemblies.....	$\frac{1}{2}$
	<hr/> 17

II. DRAWING AND PAINTING AND DESIGN

CERTIFICATE

Three Years

Required—	
Technical.....	44 units
Elective—	
Technical.....	30 units
Free.....	10 units
Total.....	84 units

First Semester	Units	Fourth Semester	Units
C1A Art Appreciation and History.....	2	T53A Illustration.....	2
C17A Design.....	2	Electives.....	12
C22c Drawing and Painting.....	2		
C42A Lettering.....	2		14
Electives.....	6		

14

Second Semester

C1B Art Appreciation and History.....	2
C17B Design.....	2
C22B Perspective.....	2
T33A Illustration.....	2
T38A Landscape.....	2
T6A Costume Appreciation and History	2
Elective.....	2

14

Third Semester

C24A Drawing and Painting.....	2
T52B Drawing and Painting.....	2
T56A Costume Design.....	2
T54A Landscape.....	2
Electives.....	6

14

Fifth Semester

C17D Design.....	2
C17E Design.....	2
C42B Lettering and Poster Design.....	2
Electives.....	8

14

Sixth Semester

T54B Landscape.....	2
T53B Illustration.....	2
T52C Drawing and Painting.....	2
Electives.....	8

14

III. HOUSE DESIGN AND DECORATION

CERTIFICATE

Three Years

Required—	
Technical.....	44 units
Elective—	
Technical.....	32 units
Free.....	8 units
Total.....	84 units

<i>First Semester</i>	Units
C1A Art Appreciation and History.....	2
C17A Design.....	2
C22A Constructive Drawing.....	2
C42A Lettering.....	2
T47A Stage Craft.....	2
Elective.....	4
	<hr/> 14

<i>Second Semester</i>	Units
C1B Art Appreciation and History.....	2
C17B Design.....	2
C22B Perspective.....	2
T28A House Design.....	2
Elective.....	6
	<hr/> 14

<i>Third Semester</i>	Units
T50A Art Crafts.....	2
T47B Stage Craft.....	2
Elective.....	10
	<hr/> 14

<i>Fourth Semester</i>	Units
C17C Design.....	2
T28B House Furnishing.....	2
T52C Drawing and Painting.....	2
T58B House Decoration.....	2
T1D History of Furniture and Period Furnishing.....	2
Elective.....	4
	<hr/> 14

<i>Fifth Semester</i>	Units
C17D Design.....	2
C17E Design.....	2
T67A Stage Craft.....	2
Elective.....	8
	<hr/> 14

<i>Sixth Semester</i>	Units
T58C House Decoration.....	2
T58D House Decoration.....	2
T50B Art Crafts.....	2
Elective.....	8
	<hr/> 14

COMMERCE
SECONDARY CERTIFICATE
SUGGESTED SCHEDULES

<i>First Semester</i>	Units	<i>Fifth Semester</i>	Units
Psychology Cx.....	1	Political Science C1A.....	3
Psychology C2A.....	3	Business Law C5A.....	2
Geography C1c.....	3	Teaching C11A.....	5
English C1A.....	3	{ Accounting Principles C14A.....	3
Typing T4A.....	2	{ Accounting Practice C15A or.....	3
Mathematics for Business and Statistics T12.....	2	Financial Organization T65.....	3
Commerce T11A.....	1	Electives.....	3
Electives.....	2		
		Total units.....	16 or 18
Total units.....	17		
<i>Second Semester</i>		<i>Sixth Semester</i>	
Education T11.....	3	Political Science C1B.....	3
Commerce T11B.....	1	Business Law C5B.....	2
Psychology C2B.....	3	Teaching Co60A.....	5
English C1B.....	3	Business Organization and Administration T50 A or.....	3
Typing T4B.....	2	Industrial History C11 or.....	3
Economic Geography C3A.....	3	{ Accounting Principles C14B.....	3
Electives.....	2	{ Accounting Practice C15B.....	3
		Electives.....	3
Total units.....	17		
		Total units.....	16 or 18
<i>Third Semester</i>		<i>Seventh Semester</i>	
Economics C1A.....	3	Education T12.....	2
Business English C10.....	2	Teaching Co60B.....	5
Bookkeeping Principles T6A.....	2	Organization and Administration of Commercial Education T75.....	3
Bookkeeping Practice T7A.....	1	Public Speaking C1A.....	3
Shorthand T3A.....	3	Mathematics.....	3
Industrial History C11.....	3	Electives.....	3
Electives.....	5		
Total units.....	16	Total units.....	16
<i>Fourth Semester</i>		<i>Eighth Semester</i>	
Economics C1B.....	3	Curricula and Methods in Commercial Education T76.....	3
Office Organization, Administration and Procedure T52.....	2	Public Speaking C1B.....	3
Bookkeeping Principles T6B.....	2	Vocational Guidance T60.....	3
Bookkeeping Practice T7B.....	1	Part Time or	
Shorthand T3B or.....	3	Intensive Training.....	5
Financial Organization T65.....	3	Electives.....	3
Electives.....	5		
Total units.....	16	Total units.....	16

HOME ECONOMICS

The Home Economics Department offers the following courses:

1. A three-year course leading to a certificate which entitles the holder to teach home economics in the elementary schools.
2. A four-year course leading to a certificate which entitles the holder to teach home economics in the elementary and the secondary schools.
3. A two-year vocational teachers' training course in home economics for experienced home-makers, leading to a secondary certificate. The course for the training of such teachers will be open only to women who have had at least four years of schooling beyond a complete elementary school course, or its equivalent in private instruction, and at least four years of experience after the age of eighteen in managing a home and in performing all the duties of a housekeeper. It conforms to the requirements of the State Board of Education, as specified in Bulletin No. 10. For further particulars consult the chairman of the Department of Home Economics.

HOME ECONOMICS ELEMENTARY THREE-YEAR COURSE

SUGGESTED SCHEDULES

<i>First Semester</i>	<i>Units</i>	<i>Fourth Semester</i>	<i>Units</i>
Psychology C2A.....	3	Chemistry (Food T10a).....	3
Chemistry C1A.....	3	Physiology (Biology T10).....	3
Food T5A.....	3	Marketing, Commerce T124.....	2
Clothing T1A.....	3	Food (Family) Household Science T68..	3
Design C17A.....	2	Clothing Demonstr. Household Arts	
Psychology Cx.....	1	T1A.....	3
Home Management Home Economics		Hygiene C9.....	1
T10.....	2	Teaching H. E. 10A.....	2
Recreation.....	1	Recreation.....	1
Total units.....	17½	Total units.....	17½
<i>Second Semester</i>		<i>Fifth Semester</i>	
Psychology C2s.....	3	Economics C1A.....	3
English and Oral Expression.....	3	Education T22.....	2
Food T5s.....	3	Chemistry T11A.....	3
Clothing T1s.....	3	Home Economics T67.....	1
Costume Appreciation and Design T6s..	2	Food Demonstr. Household Science T65	1
Biology T11.....	2	Home Economics T11.....	1
Biology T12.....	2	Teaching H. E. 10s.....	2
Recreation.....	1	Recreation.....	1
Total units.....	16½	Home Economics T58.....	4
		Total units.....	17½
<i>Third Semester</i>		<i>Sixth Semester</i>	
Chemistry T11s.....	3	Education T53.....	3
Teaching H. E. 20.....	3	Education T12.....	2
Education T11.....	3	Biology T11.....	3
Home Economics T68.....	4	Bacteriology 1.....	4
Home Economics T3A.....	2	Food, Large Quant., Home Economics	
Home Design and House Furnishing		T65.....	1
Arts T28c.....	2	Assemblies.....	1
Recreation.....	1	Teaching H. E. 11A.....	2
Total units.....	17½	Recreation.....	1
		Total units.....	18

HOME ECONOMICS SECONDARY, FOURTH YEAR

<i>First Semester</i>	<i>Units</i>	<i>Second Semester</i>	<i>Units</i>
Education Elective.....	2	Political Science C1A.....	3
Millinery T53a.....	2	Home Economics T62.....	3
Home Economics T69.....	4	Home Economics T69.....	3
Elective.....	4	Elective.....	3
Teaching HE60A.....	5	Teaching HE60a.....	5
Recreation.....	1	Assemblies.....	1
Total units.....	17½	Total units.....	17½

NOTE.—Students must elect those required subjects in elementary course for which they cannot show credit.

TEACHER-TRAINING COURSE IN HOME ECONOMICS, FOR EXPERIENCED HOME-MAKERS, TWO YEARS

<i>First Semester</i>	<i>Units</i>	<i>Third Semester</i>	<i>Units</i>
Psychology Cx.....	1	Teaching HE20.....	3
Biology T10.....	3	Home Economics T5a.....	1
Chemistry C1A.....	3	Chemistry 10A.....	3
Art (C. D.).....	2	Home Economics T10.....	2
Home Economics T5A.....	3	Home Economics T65.....	1
Home Economics T1A.....	3	Home Economics T3A.....	2
Home Economics T58.....	1	Biology T11.....	2
English and Oral Expression.....	2	Home Economics T67.....	4
Total units.....	18	Total units.....	18

<i>Second Semester</i>	<i>Units</i>	<i>Fourth Semester</i>	<i>Units</i>
Psychology C2A.....	3	Bacteriology 1.....	4
Economics C1A.....	3	Political Science C1A.....	3
Arts T28c.....	2	Hygiene 9.....	1
Home Economics T66.....	3	Home Economics T60.....	1
Home Economics T11.....	3	Biology T12.....	2
Teaching HE10A.....	4	Education T21.....	2
		Teaching HE60A.....	5
		Assemblies.....	1
Total units.....	18	Total units.....	18½

MECHANIC ARTS COURSES

The Department of Mechanic Arts offers three courses:

A. A Four-Year Mechanic Arts Course.

This prepares the graduate to teach industrial work in the elementary and secondary school. At the completion of the course a secondary special teachers' certificate is granted. At least two years' work is required in the special subjects selected for certification.

B. A Three-Year General Elementary and Mechanic Arts Course. This prepares the graduate to teach prevocational mechanic arts and general subjects in the elementary school. Upon the satisfactory completion of the work two certificates are granted; the general elementary and the elementary mechanic arts.**C. Vocational.** A student may enter the department and select a course in one particular trade in which he will be given intensive training. Credentials will be issued for the work completed.**THE FOUR-YEAR MECHANIC ARTS COURSE***Suggested Schedules*

FIRST SEMESTER		Units	FOURTH SEMESTER		Units
Mechanical Drawing T10a.....	3		Mech. or Arch. Drawing C6a or T67....	3	
Physics C1a.....	3		Chemistry C1b.....	5	
Mathematics.....	3		Shop.....	5	
Shop.....	5				
Psychology CX.....	1		<i>Teaching</i>		
Physical Education.....	2		Psychology C2a.....	3	
	17		Elective.....	1	
				17	
SECOND SEMESTER			<i>Industry</i>		
Mechanical Drawing T10b.....	3		Elective.....	4	
Physics C1b.....	3			17	
Mathematics.....	3				
Shop.....	5				
Physical Education.....	2				
Elective.....	1				
	17				
THIRD SEMESTER			FIFTH SEMESTER		
Drawing C3b.....	3		Electricity T16a.....	3	
Chemistry C1a.....	5		Shop.....	5	
Shop.....	5				
<i>Teaching</i>			<i>Teaching</i>		
Education T11.....	2		Education T10.....	3	
Elective.....	2		Teaching MA10a.....	5	
	17		Elective.....	1	
				17	
<i>Industry</i>			<i>Industry</i>		
Elective.....	4		Bookkeeping.....	3	
	17		Commerce T10b.....	3	
			Commercial Law.....	3	
				17	

SIXTH SEMESTER	Units
Applied Mechanics T19.....	2
Shop.....	5
<i>Teaching</i>	
Psychology C2s.....	2
Teaching M. S. 11A.....	5
Elective.....	3
	17
<i>Industry</i>	
Bookkeeping.....	3
Commercial Law.....	3
Elective.....	4
	17
SEVENTH SEMESTER	
Economics C1A.....	3
Applied Mechanics.....	2
Shop.....	5
<i>Teaching</i>	
Education T53.....	3
Organisation.....	1
Elective.....	3
	17

<i>Industry</i>	Units
Business Org. and Adm.....	3
Factory Management.....	3
Elective.....	1
	17
EIGHTH SEMESTER	
Economics C1B.....	3
Shop.....	5
<i>Teaching</i>	
Education T12.....	2
Teaching MA60A.....	5
Elective.....	2
	17
<i>Industry</i>	
Business Org. and Adm.....	3
Factory Management.....	3
Elective.....	3
	17

GENERAL ELEMENTARY AND ELEMENTARY MECHANIC ARTS COURSE

FIRST SEMESTER	Units
Commerce T10s.....	1
Woodwork T19.....	5
Mech. Drawing T10A.....	3
Physical Education T10.....	2
English C1A.....	3
Psychology C2A.....	3
	17
SECOND SEMESTER	
Psychology CX.....	1
Music T10.....	2
Woodwork T19.....	5
Mech. Drawing T10B.....	3
Physical Education T11.....	2
Art T10.....	2
Psychology C2s.....	3
	18
THIRD SEMESTER	
Education T11.....	3
Shop.....	5
Biology T10 or T12.....	2
Political Science C1A.....	3
Applied Electricity T16A.....	3
	16

FOURTH SEMESTER	Units
Education T12.....	2
Teaching 10.....	5
Shop.....	5
Industrial Arts.....	2
Drawing C3D.....	2
	16
FIFTH SEMESTER	
Teaching MA10A.....	5
Shop.....	5
Geography C1A.....	3
Assemblies.....	1
Mathematics T10.....	2
	16
SIXTH SEMESTER	
Education T113.....	3
Teaching MA11A.....	5
Organization M. A.....	1
History.....	2
Shop.....	5
	16

MUSIC

Admission Requirements: Candidates for elementary and secondary music certification and General Teacher Training students who expect to major in music, must show ability (1) to read music of the grades of Books II and III, State Music Text; (2) to take dictation music of the difficulty of Book I; and (3) to play the piano sufficiently well to accompany a high school chorus (Laurel Song Book). An entrance examination will be given to include these tests.

Courses: Three courses are offered for the training of directors, supervisors and departmental teachers of music: (1) General Elementary and Elementary Music Course requiring three years for completion, (104½ units); (2) the Elementary Music Course, requiring three years (102 units); (3) a Secondary Music Course requiring one year in addition to either of the above courses (34 units).

GENERAL ELEMENTARY AND ELEMENTARY MUSIC COURSE

Technical.....	55 units
Professional.....	49½ units
Total.....	104½ units

SUGGESTED SCHEDULES

<i>First Semester</i>	Units	<i>Third Semester</i>	Units
Biology T12 or T10.....	2	Music Education T8a.....	3
Psychology CX.....	1	Music Observation 9A 2 hrs.....	1
Commerce T10s.....	1	Harmony C4a.....	3
Voice T11a.....	2	Conducting T59a.....	2
Melodic Dictation C12a 5 hrs.....	3	Geography 1A.....	3
Economics C1a.....	3	Education T11.....	3
Psychology C2a.....	3	Recreation.....	½
Orchestral Instruments T13a.....	1	Total.....	15½
Recreation.....	½		
Total.....	16½		
<i>Second Semester</i>		<i>Fourth Semester</i>	
English C1a or English T10s.....	3	Music Education T8b.....	3
Mathematics T10.....	2	Music Observation 9A.....	2
Psychology C2b.....	3	Harmony C4b.....	3
Physical Education T10.....	2	Teaching 10A.....	5
Melodic Dictation C12b 5 hrs.....	3	Conducting T59b.....	2
Voice T11b.....	2	Piano Ensemble C2c.....	2
Recreation.....	½	Recreation.....	½
History T1a-T1b.....	3	Total.....	17½
Total.....	18½		

SUGGESTED SCHEDULES—(Continued)

<i>Fifth Semester</i>	Units	<i>Sixth Semester</i>	Units
Teaching M10A.....	7	Assemblies.....	1
Music Literature C3A.....	3	Teaching M10B.....	7
Political Science C1A.....	3	Music Literature C3B.....	3
Orchestral Instruments T13B.....	1	Education T53.....	3
Education T12.....	2	Piano Ensemble C2B.....	2
		Physical Education T11.....	2
Total.....	16	Total.....	17½

ELEMENTARY MUSIC COURSE

Technical.....	87 units
Professional.....	15 units
Total.....	102 units

<i>First Semester</i>	Units	<i>Fourth Semester</i>	Units
Psychology C2A.....	3	Education T11.....	3
Psychology CX.....	1	Harmony C4B (weak) or Elective.....	3
Elective.....	5	Harmony C4B (strong) or Elective.....	3
Melodic Dictation AC12B 5 hours.....	3	Conducting T59A.....	2
Voice T11A.....	2	Observation 9A 3 hrs.....	2
Orchestral Instruments T13B.....	1	Music Education T8B.....	3
Piano Ensemble C2C.....	2	Elective.....	1
Total.....	17	Total.....	17

Second Semester

Psychology C2B.....	3
Elective.....	3
Orchestral Instruments T13B.....	1
Orch. Inst. T13A.....	1
Piano Ensemble C2B.....	2
Melodic Dictation C12B 5 hrs.....	3
Voice T11B.....	2
Elective.....	3
Total.....	17

Third Semester

Harmony C4A (weak) or Elective.....	3
Conducting T59A.....	2
Observation 9A 2 hrs.....	1
Music Education T8A.....	3
Elective.....	5
Harmony C4A (strong) or Elective.....	3
Piano Ensemble.....	2
Elective.....	1
Total.....	17

Fifth Semester

Education T12.....	2
Music Literature C3A.....	3
Teaching M10A.....	7
Elective.....	5
Total.....	17

Sixth Semester

Education T53.....	3
Piano Ensemble.....	2
Music Literature C3B.....	3
Elective.....	2
Teaching M10B.....	7
Total.....	17

SECONDARY MUSIC COURSE

Technical.....		34 units
<i>First Semester</i>	Units	<i>Second Semester</i> Units
Teaching M60A.....	5	Music Teaching M60s..... 5
Music Observation T91A.....	3	Harmony T55s..... 3
Form and Analysis (Elective) T64A....	2	Music Literature T63s..... 3
Music Literature T63A.....	2	Piano..... 4
Harmony T55A.....	2	Form and Analysis (Elective) T64s..... 2
Psychology T76A.....	3	
Total..... 17		Total..... 17

PHYSICAL EDUCATION FOR WOMEN

PROFESSIONAL COURSES

Professional courses are open to men who desire to make physical education their major subject.

Courses are planned to meet the needs of seven classes of students.

COURSE A

1. For students desiring to take in the Southern Branch of the University the first two years of the Five-Year Course offered by the Department of Education, University of California.

COURSE B

1. For students desiring to become directors or responsible instructors of physical education in high schools.

2. For students desiring to combine leadership of physical training activities with the teaching of some academic subject in high school.

COURSE C

1. For students desiring to become supervisors or responsible instructors of physical education in the elementary and intermediate grades.

2. For students desiring to become supervisors or responsible instructors of physical education in the elementary and intermediate grades.

3. For students desiring academic courses in physical education as a part of a liberal education.

EXPENSE

Regulation suit and shoes are required. The cost is about \$13.

WOMEN'S ATHLETIC ASSOCIATION

The Women's Athletic Association coöperates with the Department of Physical Education in promoting a high physical efficiency among the women of the University, by encouraging many forms of physical activities. The association supplements the work of the department by organizing school teams and arranging for contests in the following sports:

Fall Season.—Field hockey, swimming, tennis, golf.

Winter Season.—Basketball, indoor baseball.

Spring Season.—Outdoor baseball, field and track, swimming, archery.

Dancing is offered throughout the year.

COURSE A

The First two years of the five-year course offered by the Department of Education at Berkeley, leading to a degree of A.B. and a state certificate in Secondary General Physical Education.

SUGGESTED ORDER OF COURSES FOR THE FIRST TWO YEARS

FRESHMAN YEAR		SOPHOMORE YEAR	
<i>First Semester</i>	Units	<i>First Semester</i>	Units
Chemistry C1A.....	5	Hygiene C3.....	3
Hygiene C2.....	2	Physiology T10 (Biology).....	4
Biology C35A.....	4	Practice C52c.....	1
Practice C52A.....	1	Electives.....	8
Electives.....	4		15½
	15½		
<i>Second Semester</i>		<i>Second Semester</i>	
Chemistry C1B.....	5	Hygiene C5.....	2
Practice C52c.....	1	Physiology T7 (Physical Education)....	4
Electives.....	10	Practice C52D.....	1
	15½	Electives.....	9
			15½

COURSE B-1

A four-year course leading to the Physical Education diploma and state certification in Secondary General Physical Education.

Requirement—

Foundation Sciences.....	47 units
Theory and Scientific Procedure.....	52 units
General.....	21½ units
Physical Training Activities.....	20 units
	140½ units

COURSE B-2

A four-year course leading to state certification in Secondary Physical Training Activities.

Requirements: Same as for B-1 except that only 20 units in foundation sciences and 30 units in theory and scientific procedure are required.

SUGGESTED SCHEDULES

<i>First Semester</i>	Units	<i>Second Semester</i>	Units
Economics C1A.....	3	Psychology C2A.....	3
Chemistry C1A.....	5	English T10.....	3
Hygiene C2.....	2	Chemistry C1B.....	5
Anatomy.....	4	Anatomy C35A.....	4
Psychology Cx.....	1	Practice.....	2½
Practice.....	2½		17½
	17½		
<i>Third Semester</i>		<i>Fourth Semester</i>	
Education T11.....	3	Education T53.....	3
Psychology C2B.....	3	Nature and Function of Play.....	3
Child Development.....	2	History of Physical Education.....	2
Physiology T10.....	4	Biology C35B.....	4
Kinesiology.....	2	Organic and Physiological Chemistry...	3
Elective.....	1	Practice.....	2½
Practice.....	2½		17½
	17½		
<i>Fifth Semester</i>		<i>Sixth Semester</i>	
Education T12.....	2	Administration of Physical Education..	3
Principles of Physical Education.....	3	Therapeutic Gymnastics.....	2
Physical Examination.....	2	Hygiene C5.....	2
Therapeutic Gymnastics.....	3	Physiology T7.....	4
Special Methods.....	2	Special Methods.....	2
Teaching P. E. 10A.....	2	Teaching P. E. 11A.....	2
Electives.....	1	Practice.....	2½
Practice.....	2½		17½
	17½		
<i>Seventh Semester</i>		<i>Eighth Semester</i>	
Education T13s.....	3	Administration of Secondary Physical	
Clinical Pathology.....	3	Education.....	3
Special Methods.....	2	Physical Diagnosis.....	3
Teaching PE60A.....	2	Physiology of Exercise.....	3
Electives.....	5	Special Methods.....	2
Practice.....	2½	Teaching PE60B.....	2
	17½	Assemblies.....	½
		Electives.....	2
		Practice.....	2½

Electives; Hygiene 3, Bacteriology 3. Teaching

COURSE C-1

A three-year course leading to the Physical Education Elementary and the General Elementary diplomas and state certification in Elementary General Physical Education.

Requirement—

Foundation Sciences.....	30 units
Theory and Scientific Procedure.....	40 units
General.....	32½ units
Physical Training Activities.....	15 units

Total.....117½ units

COURSE C-2

A three-year course leading to the Physical Education Elementary diploma and state certification in Elementary General Physical Education.

Requirement: Same as for C-1, except that only 105½ units are required for graduation and electives may be substituted for courses marked with *.

COURSE C-3

A three-year course leading to state certification in Elementary Physical Training Activities.

Requirements: Same as for C-2 except that only 20 units in foundation sciences and 20 units in theory and scientific procedure are required.

SUGGESTED SCHEDULES

<i>First Semester</i>	<i>Units</i>	<i>Fourth Semester</i>	<i>Units</i>
Economics.....	3	Education T53.....	3
Psychology Cx.....	1	*Teaching 10.....	5
*Penmanship.....	2	Physiology T7.....	4
*Geography C1A.....	3	Nature and Function of Play.....	3
*History T10.....	2	Special Methods.....	2
Anatomy C35A.....	4	Practice.....	2½
Hygiene C2.....	2		19½
Practice.....	2½		
	19½		
<i>Second Semester</i>		<i>Fifth Semester</i>	
Psychology C2A.....	3	Education T12.....	2
English T10.....	3	Principles of Physical Education.....	3
*Mathematics T10.....	2	Physical Examinations.....	2
Anatomy C35B.....	4	Therapeutic Gymnastics.....	3
History of Physical Education.....	2	Clinical Pathology.....	3
Organic and Physiological Chemistry.....	3	Special Methods.....	2
Practice.....	2½	Teaching P. E. 10A.....	2
	19½	Practice.....	2½
			19½
<i>Third Semester</i>		<i>Sixth Semester</i>	
Education T11.....	3	Admin. of Sec. Ph. Ed.....	3
Psychology C2B.....	3	Physical Diagnosis.....	3
Child Development.....	2	Therapeutic Gymnastics.....	2
*Political Science.....	3	Physiology of Exercise.....	3
Physiology T10.....	4	Hygiene C5.....	2
Kinesiology.....	2	Special Methods.....	2
Practice.....	2½	Teaching P. E. 11A.....	2
	19½	Assemblies.....	1
		Practice.....	2½
			20

ELECTION IN PHYSICAL EDUCATION

Suggested selection of courses for electives in physical education.

19 UNITS—		13 UNITS—	
Physiology T10.....	4	Hygiene C2.....	2
Hygiene C2.....	2	Nature and Function of Play.....	3
Nature and Function of Play.....	3	Child Development.....	2
Child Development.....	2	Special Methods.....	4
Special Methods }.....	6	Practice C52A-B.....	1
Practice Teaching }.....		Practice C52C-D.....	1
Practice C52A-B.....	1		13
Practice C52C-D.....	1		
	19	8 UNITS—	
		Hygiene C2.....	2
		Nature and Function of Play.....	3
14 UNITS—		Special Methods.....	2
Hygiene C2.....	2	Practice C52A-B.....	1
Nature and Function of Play.....	3		8
Child Development.....	2		
Special Methods.....	5	6 UNITS—	
Practice Teaching or		Hygiene C2.....	2
Practice C52A-B.....	1	Special Methods.....	3
Practice C53C-D.....	1	Practice C52A-B.....	1
	14		6

For *General Regulations of the Faculties concerning Admission and Classification, Routine of Registration, Units of Work and Credit, Study-List Limits, Subject A, Military Science, Physical Education and Hygiene, Grades of Scholarship, Conditions and Failures, Leave of Absence and Honorable Dismissal*, etc., see pages 59 to 68 of the Circular of Information, which is Part I of this Register.

GENERAL INFORMATION

LIVING ACCOMMODATIONS

The cost of board and lodging (1) in boarding houses in Los Angeles is \$35 to \$50 a month. (2) For students living in housekeeping rooms and "boarding themselves" the expenses may be reduced as low as \$20 to \$25 a month, but this plan of living is not generally recommended. (3) Families or groups of mature students who wish to rent furnished houses or apartments should apply to the local real estate agents. Rents near the campus for housing eight or more persons range from \$65 up, unfurnished. A two-room furnished apartment, with bath and kitchenette, janitor service, heat and house laundry rents from \$50 up.

The University has no dormitories. Lists of boarding places approved by the University authorities are published at the opening of every session. No freshman woman is permitted to complete her registration unless her boarding place is first approved by the Counselor of Women.

Lists of approved boarding places and further advice concerning living accommodations may be obtained at the office of the Counselor of Women, Millspaugh Hall.

EMPLOYMENT

Women students desiring employment should apply at the office of the Counselor of Women, Millspaugh Hall. Board and lodging can often be obtained in exchange for three or four hours of household work daily.

EXPENSES OF STUDENTS

Tuition in Academic Colleges at Berkeley and Los Angeles is free to residents of the state. Non-residents of California are charged a tuition fee of \$10 each half-year.

The following incidental expenses are to be met:

Gymnasium and Health Test Fees.—The gymnasium fee is \$2.50 per half-year, and the health test fee is \$3.00 per year: both are payable by every student before his study card is filed. These fees entitle students to gymnasium and first aid privileges, and are not remitted in whole or in part for those who may not desire to make use of these privileges. Gymnasium privilege comprises use of gymnasium, tennis courts, lockers, baths, washrooms, etc. The health fee entitles students to yearly physical examinations, consultation and advice, and first aid treatment.

One half of the amount of these fees is returned to students who leave the University before October 1 in the first semester or February 7 in the second semester.

Physical examinations.—Students are required to report for physical examinations at the beginning of each year. All students must satisfy the medical examiner concerning vaccination before entering.

Students who fail to meet their appointments with the medical examiner are subject to a fee of one dollar for a second appointment.

Laboratory and Departmental Fees.—In the laboratories a charge is made for materials actually used. This charge, for students in the elementary laboratories, amounts to from \$5 to \$30 per annum.

The military uniform deposit is \$30, and the **military text book deposit** is \$3; both deposits are payable by every student subject to military training before his study-card is filed. Military training is prescribed for all first- and second-year undergraduate male students who are citizens of the United States, able-bodied, and under twenty-four years of age at admission to the University. The United States furnishes uniforms and some text books for the use of students receiving military training. The University being responsible for uniforms and text books furnished by the United States requires the student to deposit with the Comptroller an amount necessary to cover the cost of the articles issued him. The deposit is refunded at the close of the academic year, or upon the student's withdrawal from the University, provided the student then returns in good condition all articles issued him. The amount necessary to replace articles not returned by the student will be retained by the Comptroller. The text books are loaned the student through the University Library.

Other expenses are: Gymnasium outfit for men, about \$5; for women, about \$8; books and stationery, from \$18 to \$25 per annum. All students are eligible to membership in the Associated Students of the University of California. The cost of a membership card is about \$5 per year. The card entitles the holder to participation in the affairs of the Associated Students; a free subscription to the *Cub Californian*; free admission to all athletic contests held on the campus under the jurisdiction of the Associated Students with the exception of final intercollegiate contests.

The ordinary yearly expenses of a student in the academic departments, including personal expenses, would probably be at least \$650.

THE LIBRARY AT LOS ANGELES

The Library is located in a separate building with a capacity of 50,000 volumes. The reading rooms will accommodate about 400 students.

Students in all departments are entitled to the free use of the library, which is open daily, save Sundays. From Monday to Friday, inclusive, the hours are from 7:45 a.m. to 5 p.m.; Saturday, from 9 a.m. to 1 p.m. The Library contains about 31,000 volumes and 8,000 pamphlets. About

2,500 books are added annually. The Library subscribes for many of the leading periodicals, professional and general. In addition there are about 6,500 bound volumes of the literary and educational magazines.

A course of instruction in the use of books and the library is offered as an elective. Talks on the general use of the library are given each term to entering students; and a Library Handbook, containing rules and regulations and general information regarding the library, has been issued for general distribution.

THE APPOINTMENT SECRETARY

Upon the request of school officials the Appointment Secretary recommends teachers who, in the opinion of the faculty, are able to fill satisfactorily the positions for which teachers are being sought. To do this intelligently, it is necessary that the Appointment Secretary have detailed information concerning the vacancies to be filled.

The Secretary makes every endeavor to assist graduates to secure positions of the kind for which they are best fitted. Students are urged to make occasional calls at the office of the Appointment Secretary throughout their entire course.

There is no expense to the school officials or to students for the service rendered by this office.

SUMMER SESSION

The Summer Session of six weeks is designed for teachers and other persons who are unable to attend the University during the fall and spring sessions. There are at present no formal entrance requirements, except that applicants must be persons of good moral character and must be considered by the faculty to be of sufficient maturity and intelligence to profit by attendance upon the exercises of the session. The courses of instruction are mainly of university grade, and credit toward university degrees may be given to attendants who comply with such conditions of work and examinations as may be imposed by the instructors in charge.

The tuition fee is \$20, regardless of the number of courses taken.

An Announcement of the Summer Session is issued in April of each year and may be obtained by addressing the Dean of the Summer Sessions, Berkeley, California.

In addition to the session at the University in Berkeley the Summer Session in Los Angeles has been established and will be conducted at the Southern Branch of the University.

III. ANNOUNCEMENT OF COURSES

EXPLANATORY NOTE

CLASSIFICATION OF COURSES

UNDERGRADUATE COURSES.

- a. Junior College Courses.
- b. Teachers' Courses.

NUMBERING OF COURSES

All strictly teachers' courses are preceded by T.

Only the courses marked with the letter "C" will be given college credit at par in the University.

Year Courses; Double Numbers. A course designated by a double number (for example, History C4A-C4B) is continued through two successive half-years, that is, from September to June or from January to January. The student will use the first number in registering for the course during its first half-year, and the second number during its second half-year. A final report will be made by the instructor at the end of each half-year; "provisional mid-year reports" in year courses have been discontinued. The student may discontinue the course at the end of the first half-year, with final credit for the first half of the course.

ABBREVIATIONS

The credit value of each course in semester units is indicated for each semester by a numeral in parentheses following the title. A semester unit is one hour of the student's time at the University, weekly, during one half-year, in lecture or recitation, together with the time necessary in preparation therefor; or a longer time in laboratory or other exercises not requiring preparation. The session during which the course is given is shown as follows: I, first half-year; II, second half-year; "Yr.", throughout the year. When no hours are stated it is understood that these are to be arranged later. Further information concerning class hours will be found in the SCHEDULE.

ART**PREPARATION FOR THE MAJOR**

Required: C1A-C1B (2-2), C17A-C17B (2-2), C22B-C22C (2-2), C24A (2), C17D (2), C42A (2), C42D (2).

The purpose of the Department of Art is to develop appreciation and self-expression; to prepare the student (a) to teach the space arts in a sequential way, and (b) to do commercial art work.

C1A-C1B. Art Appreciation and History. (2-2) Yr. GERE

C1C-T1D. Art Appreciation and History. (2-2) Yr. GERE

T50A. Art Crafts. (2) I. DELANO

T50B. Art Crafts. (2) II. DELANO

T12A-T12B. Art Methods. (2-2) Yr. BROOKS

T10. Art Structure (Teachers' Course). Secs. 1, 2. Either half-year. HAZEN

*T14A. Art and Industrial Art (Kindergarten-Primary Course). (5) I.

*T14B. Art and Industrial Art (Elective). (2). —

T55A. Basketry. (2) II. —

T62A-T62B. Bookbinding. (2-2) Yr. WHITICE

T63A. Bookbinding. (2) I. WHITICE

T68A-T68B. Clay Modeling and Pottery. (2-2) Yr. —

*T69A. Clay Modeling and Pottery. (2-2). —

T6A. Costume Appreciation and History of Costume. (2). SOOY

T6B. Costume Appreciation and Design. (2). (Home Economics.) —

T56A-T56B. Costume Design. (2-2) Yr. SOOY

C17A. Design. (2) Either half-year. Sec. 1, DELANO; Sec. 2, BROOKS

C17B. Design. (2) II. DELANO

C17C. Design. (2) I. DELANO

C17D. Design. (2) II. DELANO

C17E. Design. (2) II. —

C22A-C22B. Drawing and Painting. (2-2) Yr. —

C22C. Drawing and Painting. (2) Either half-year. CHANDLER, BROOKS

C24A. Drawing and Painting. (2) II. CHANDLER

* Not offered in 1920-21.

T52B. Drawing and Painting. (2) II.	CHANDLER
T52C. Drawing and Painting. (2-2) Yr.	CHANDLER
T52D. Drawing and Painting.	CHANDLER
T28A. House Design. (2) II.	HAZEN
T28B. House Design and House Furnishing (Home Economics).	—
T28C. House Furnishing. (2) II.	HAZEN
T58A. House Decoration. (2). (Home Economics.)	—
T58B. House Decoration. (2) II.	SOOY
T58C. House Decoration. (2) II.	SOOY
T58D. House Decoration. (2) II.	SOOY
T33A. Illustration. (2) II.	CHANDLER
T53A. Illustration. (2) II.	CHANDLER
T53B. Illustration. (2) II.	SOOY
T11. Industrial Arts. (2). Secs. 1, 2.	—
T38A. Landscape. (2) II.	HAZEN
T138A. Landscape. (2) I.	HAZEN
T54A. Landscape. (2) I.	HAZEN
T54B. Landscape. 2 II.	CHANDLER
T64A. Leather Craft. (2) II.	WHITICE
T64B. Leather Craft. (2) II.	WHITICE
C42B. Lettering and Poster Design. (2) I.	SOOY
T65A-T65B. Metal Craft. (2-2) Yr.	WHITICE
T47A. Stage Craft. (2) II.	HAZEN
T47B. Stage Craft. (2) II.	DELANO
T67A. Stage Craft. (2) II.	WHITICE
T57A-T57B. Weaving. (2-2) Yr.	WHITICE

BIOLOGY

- *1. Introductory Physiology. (4). ———
- *2. Introductory Biology. (4). ———
- T10. Advanced Physiology and Hygiene. ATSATT
Prerequisite: Biology 1 or its equivalent.
- T11. Elements of Agriculture. OLDER, ESSIG
- T12. Nature Study. (3). MILLER, ATSATT
- T13A-T13B. Applied Anatomy. (3-3) Yr. ATSATT
- T21. Advanced Agriculture and School Gardening. (2) OLDER
- †C35A-C35B. A Study of Mammalian and Human Anatomy. (4-4) Yr. ATSATT
- Botany C2A-C2B. General Botany. (3-3) Yr. ESSIG
Required for students in the College of Agriculture and of the natural sciences.
- Bacteriology 1. Elementary Bacteriology. (4). ESSIG
- Agriculture C5. General Horticulture. (3) II. OLDER
- Zoology C1A-C1B. General Zoology. (4-5) Yr. MILLER, DAVIDSON
Required for work in medicine and the natural sciences.
- Zoology C14. Zoology of the Higher Vertebrates. (2). MILLER
- Zoology C15. Organic Evolution. (3) II. MILLER

CHEMISTRY**PREPARATION FOR THE MAJOR**

Required: Chemistry C1A-C1B (10); calculus; Physics C1A-C1B or C2A-C2B (6); German; French.

- C1A-C1B. General Chemistry. (5-5) Yr. MORGAN, CROWELL
- C5. Quantitative Analysis. (3) I. CROWELL
- C6A-C6B. Quantitative Analysis. (3-3) Yr. CROWELL
- C8. Elementary Organic Chemistry. (3) I. MORGAN, CROWELL
- C9. Elementary Organic Chemistry. (3) I MORGAN, CROWELL
- T10A-T10B. Food Chemistry. (2-2) Yr. HALLAM
- T11A-T11B. Advanced Food and Household Chemistry. (2-2) Yr. HALLAM

* Not offered in 1920-21.

† For Pre-Nursing and Physical Education majors.

CLASSICAL LANGUAGES**GREEK**

- C1AB-C2AB. Beginning Greek, Attic Prose and Homer. (5-5) Yr. **McKINLAY**
C40A-C40B. Prose Composition. (1) Yr. **McKINLAY**
C41. Introduction to Plato. (3) I. **McKINLAY**

LATIN**PREPARATION FOR THE MAJOR**

Required: 18 units of Latin, which may be distributed as either 6, 9, or 12 units in high school and 12, 9, or 6 in college.

Recommended: as much work as may be possible in Greek, Ancient History, French, and German.

- CC. Third-Year Latin: Ciceronian Prose. (3) I. **McKINLAY**
Open to those who have had two years of high school Latin.
CD. Fourth-Year Latin: Augustan Poetry. (3) II. **McKINLAY**
C1. Cicero, De Senectute and Pliny's Letters. (3) I. **McKINLAY**
Open to those who have had four years of high school Latin.
C5. Horace, Odes and Epodes. (3) II. **McKINLAY**
This course follows Latin 1.
C3A-C3B. Latin. Prose Composition. (1-1) Yr. **McKINLAY**
C2. Catullus and Livy. (3) I. **McKINLAY**
Prerequisite: course 5.
C6. Tacitus and Plautus. (3) II. **McKINLAY**
Prerequisite: course 2.

COMMERCE**GENERAL STATEMENT**

The Department of Commerce offers three types of professional courses: a Teacher Training Course to afford a knowledge of fundamental business facts and principles in addition to training in educational methods; a University Course preparing for the regular Junior Certificate of the University of California; a Technical Commercial Training Course intended to provide a knowledge of the principles of business and such practical training in business methods as part-time work will furnish.

PREPARATION FOR THE MAJOR

Required: Economics C1; C1A-C1B; History C2A-C2B; C3A-C3B; Political Science C1A-C1B.

C1A-C1B. Principles of Economics. (3-3) Yr. MARVIN and Assistants

T3A-T3B. Shorthand. (5-3) Yr. ALLEN

T4A-T4B. Typing. (3-2) Yr. ALLEN

C5A-C5B. Business Law. (2-2) Yr. —

T6A-T6B. Bookkeeping Principles. (2-2) Yr. LE DEUC, RHODES

T7A-T7B. Bookkeeping Practice. (2-1) Yr. RHODES

C10. English in Business Practice. (2). RHODES

T11A-T11B. Penmanship. (3-1) Yr. PLOUGH

T12. Mathematics for Business and Statistics. (2-1) Yr. LE DEUC

(C2. Mathematics.) Mathematical Theory of Investment. (5) I.
SHERWOOD, SHOWMAN

C14A-C14B. Accounting Principles. (3-3) Yr. LE DEUC

C15A-C15B. Accounting Practice. (3-3) Yr. LE DEUC

C11. Industrial History of the United States. (3) I. (See History) —

T50A-T50B. Business Organization and Management. (3-3) Yr. MARVIN

T52. Office Organization, Administration, and Procedure. (3) II. MARVIN

*T54. Marketing. (3) II. —

T55. Psychology of Salesmanship. —

T56. Advertising Practice. (2) II. —

T58. Salesmanship Practice. (2) I. —

T59A-T59B. Employment Management. (3-3) Yr. MARVIN

C3A-C3B. Economic Geography. (3-3) Yr. (See Geography.) —

T65. Financial Organization. (3-3) Yr. MARVIN

T66. Transportation. (3-3) Yr. MARVIN

T67. Credits and Collections. COUCH

T70. Elementary Statistics. (2) II. LE DEUC

T75. Organization and Administration of Commercial Education.
(3-3) Yr. MARVIN

T76. Curricula and Methods in Commercial Education. (3-3) Yr.
MARVIN and Staff

T79. Store Organization and Service. (2-2) Yr. MARVIN and Assistants.

T53. Part-Time Work. —

* Not to be given, 1920-21.

EDUCATION, PSYCHOLOGY, AND PHILOSOPHY

**1. COURSES REQUIRED FOR THE ELEMENTARY CERTIFICATE
AND KINDERGARTEN-PRIMARY CERTIFICATE**

A. EDUCATION

- T11. Principles of Education. (3) I. DARSIE, PATTERSON
Prerequisite: Psychology 2B.
- T12. Elementary Administration and California School Law. (2). —
Prerequisite: Teaching 10.
- T53. Educational Sociology. (3) II. —
Prerequisite: Education T11. (Not required of students taking the
kindergarten-primary course.)
- T21. Introductory Kindergarten-Primary Education. (2) I. McLAUGHLIN
- T22. Kindergarten-Primary Curricula and Methods. (5) I. McLAUGHLIN
- T23. Kindergarten-Primary Practices. (2) II. WARING
- T25. Kindergarten-Primary Standards, Goals and Measurements.
(2) I. WARING

B. PSYCHOLOGY

- Psychology CX. (1). MOORE and Assistants
- C2A. Introductory Psychology. (3) Either half-year. FISHER, SULLIVAN
Prerequisite to all other courses in psychology.
- C2B. Genetic Psychology. (3) Either half-year. FERNALD, FISHER
Prerequisite: Psychology 2A.

2. ELECTIVE COURSES

A. EDUCATION

- T51. History of Education. (3) II. —
Prerequisite: Education T11.
- T13. Primary Education. (3) Either half-year. PATTERSON
Prerequisite: Education T11.
- T57. Educational Measurement and Diagnosis. (3) II. DARSIE
Prerequisite: Teaching 10 or its equivalent.

- *T24. Kindergarten-Primary Supervision. (2) II. McLAUGHLIN
- T61. Secondary Education. (3) I. DARSIE
Prerequisite: Education T11.
- T26. History of Kindergarten-Primary Education. (2) II. McLAUGHLIN
- T27. (3) I. McLAUGHLIN
- *T63. The Elementary Curriculum. (3) II. DARSIE
Prerequisite: Education T53.
- *T65. The Administration of a School. (3) II. —
Prerequisite: Education T53.
- T66. Rural Education. (3) II. PATTERSON
Prerequisite: Education T11.
- *T60. Vocational Guidance. (3) II. —
Prerequisite: Education T53.

B. PSYCHOLOGY

Elective Courses

- T70. Psychology of Elementary School Subjects. (3) I. FERNALD
Prerequisite: Psychology C2B.
- T77. Clinical Psychology. (3) II. FERNALD
Prerequisite: Psychology C2B. (This course alternates with Psychology T70, thus giving a year's course in advanced psychology.)
- T76A-T76B. Introductory Experimental Psychology. (3-3) Yr. FISHER
Prerequisite: Psychology C2A.

C. PHILOSOPHY

- C1A. Deductive Logic. (3) I. DARSIE
- C1B. Inductive Logic. (3) II. DARSIE
- C4A. Introduction to Philosophy. (2) II. MOORE

* Not offered in 1920-21.

ENGLISH**PREPARATION FOR THE MAJOR**

Required: English C1A-C1B (6 units).

First-year English:

The requirements in English in the junior college are determined for each student by the examination in Subject A, which is required of all entrants to the colleges of the University. Students who pass this subject with a grade of 1 or 2 are not required, but are advised, to elect English C1A-C1B.

Students who pass Subject A with a grade of 3 are required to take English 1x before obtaining junior standing. Students who receive a grade lower than 3 in Subject A are required to take work in English composition (English A) until they have passed the examination. No student who has not passed Subject A will be admitted to any course in English composition except English A. The dates of the examinations are indicated in the Calendar. A fee of two dollars for the examination is required of those who do not present themselves at the appointed time.

A. Elementary English Composition (no credit). SEAMAN

Required of students who have failed in Subject A.

C1x. Oral and Written Composition. (3). GRAY, SEAMAN, CARHART

Either half-year. Required of students receiving grade 3 in Subject A.

C1A-C1B. Oral and Written Composition. (3-3) Yr.

BLANCHARD, STELTER, ALLEN, GRAY, CARHART

Open to Junior College students and teachers' course students receiving grade 1 or grade 2 in Subject A.

The foregoing courses are for Junior College and teachers' course students alike. Those following are open to second and third year students who have completed one year of freshman English.

C2A-C2B. History of English Literature. (3-3) Yr. ALLEN

T10. Teaching of English. (3). SEAMAN

C6B. Frequent Writing. (3) II.

Limited to fifteen students in a section.

C6N. Narration. (3) I. BLANCHARD

Limited to fifteen students.

C11E. Chaucer. (3) II. GRAY

C17A. Shakespeare. (3) II. BLANCHARD

C21A-C21B. Nineteenth Century Poetry. (3-3) Yr. STELTER

C21G-C21H. Nineteenth Century Prose. (3) I.	GRAY
C25F. The Nineteenth Century Novel. (3) I.	BLANCHARD
*C31A-C31B. American Literature. (3-3) Yr.	HOWE

ORAL ENGLISH

Requirement for the major: English C1A-C1B (6) and Public Speaking C2A-C2B (6).

C2A-C2B. Public Speaking. (3-3) Yr.	THOMAS
C4A-C4B. Public Speaking. (2-2) Yr.	HUNNEWELL
C10A-C10B. Public Speaking. (3-3) Yr.	THOMAS
T10A. Reading. (3). Prerequisite: Psychology 10, 11.	HUNNEWELL
T10B. Reading (3).	HUNNEWELL
T15A. Reading. Story Telling. (2).	HUNNEWELL
T15B. Reading. Children's Literature. (3).	GREENWOOD

GEOGRAPHY AND GEOLOGY

PREPARATION FOR THE MAJOR

Required: Geography C1A (3); C1C-C2C (4).

Recommended: Matriculation Physics and Chemistry; Economics C3A or History C4 or C8 or Geology C1.

C1A. Fundamentals of Geography. (3) Either half-year.	MCCLELLAN
*1B. Elementary Meteorology. (3).	—
C2B. Meteorology and Aeronautics. (1) Either half-year.	CARPENTER
Prerequisite: Geography C1C.	
C1C. Elementary Physiography. (3) Either half-year.	ROBISON, MCCLELLAN
C2C. Map and Field Study of Physiography. (1) Either half-half.	ROBISON
T29. The Teaching of Geography. (3) Either half-year.	MCCLELLAN
C15. California. (3) II.	—
Prerequisite: Geography C1C and C1A.	

* Absent on leave, 1920-21.

- C16A. North America. (3) II. —
Prerequisite: Geography C1c.
- C16B. South America. (3) I. McCLELLAN
Prerequisite: Geography C1c.
- C16c. Europe. (3) II. ROBISON
Prerequisite: Geography C1c.
- T57. Geographic Factors in American History. (3) I. ROBISON
Prerequisites: Geography C1c and C1A. Primarily for third year students.
- T58. Geographic Factors in European History. (3) II. ROBISON
Prerequisites: Geography C1c and C1A. Primarily for third year students.
- *T59. Geography of the World's Great Cities. (3) I. —
Prerequisites: Geography C1c and C1A.
- *T60. Conservation of Natural Resources. (3) II. —
Prerequisites: Geography C1c and C1A.
-

ECONOMIC GEOGRAPHY

(See Commerce)

GEOLOGY

- C1A. Elements of Geology. (3) I. ROBISON
Prerequisites: Elementary Physics and Chemistry.

MINERALOGY

- *1A-1B. Determinative Laboratory. (4) Either half-year. —
Prerequisite: Chemistry.
- *2A-2B. Crystallography. (3). —
Prerequisite: Chemistry.

* Not offered in 1920-21.

HISTORY**PREPARATION FOR THE MAJOR**

Required: Any 3-unit year course in history.

Recommended: French, or German, or Latin, or Spanish, or Italian.

Of all students taking regular teachers' courses T1A or T1B is required. For junior standing take courses 2 and 4. Those who have completed work similar to the above may enter more advanced courses after consulting with the instructors in charge. A reading knowledge of some modern foreign language is an aid in the more advanced work.

T1A-T1B. History of the United States. (3-3) Yr. (One semester required.)
GAINES, KLINGBERG, KAHLEY, LATHAM

C2A-C2B. History of England and Great Britain. (2-2) Yr. KLINGBERG

C4A-C4B. Social and Political History of Modern Europe. (3-3) Yr.
KLINGBERG

T11. The Teaching of History. (2) Each semester. LATHAM

T13. The Economic and Social History of the United States. (2) Each semester. LATHAM

T59A. Pacific Coast History. (2) Each semester. GAINES

T75. Contemporary History. (1) Each semester. GAINES

C31. The Renaissance. (3) I. KLINGBERG

C42. The French Revolution. (3) II. KLINGBERG

C83A-C83B. The Expansion of Europe Since the Fifteenth Century.
(2 2) Yr. KLINGBERG

T51A-T51B. The Peace and Reconstruction. (2-2) Yr. KLINGBERG

— — — —

HOME ECONOMICS

T10. Care of the Home. Household Management. (2) II. —

T50. Teachers' Course in Elementary Methods. (3) I. —

*T55. Care of Children. —

T1A-T1B. Elementary Clothing. (3-3) Yr. LATHROP, WILSON

T60. Clothing. Advanced Course. (3) I. LATHROP
Prerequisite: T1A-T1B.

* Not offered in 1920-21.

T58. Clothing. A Study of Textiles. (3) II.	WILSON
T11. Laundry. (2) I.	MACPHERSON
Prerequisite: Elementary Chemistry.	
T3A. Elementary Millinery. (2) I.	WILSON
T53B. Advanced Millinery. (2) II.	WILSON
T62. Clothing; Special Problems. (3) II.	LATHROP
T5A-T5B. The Food Problem. (3-3) Yr.	CHILTON
T65. Large Quantity Cooking. (1) I.	HALLAM
T66. Family Cooking. (3) I.	CHILTON
T67. Elementary Dietetics. (4) I.	—
T68. Advanced Dietetics. (4) II.	—
T69. Experimental Cooking (Secondary). (3) II.	CHILTON

MATHEMATICS

PREPARATION FOR THE MAJOR

Required: Mathematics C3A (3 units), C6 (3), C8 (3), C3B (3), A-CO (6).

Recommended: Physics; Astronomy; French; Italian; German; Latin.

T10. (3). GLAZIER

Required of all students taking the regular teachers' courses. Prerequisite: Psychology C2A.

CC. Plane and Spherical Trigonometry. (3). GLAZIER

C2. Mathematical Theory of Investment. (5). SHERWOOD, SHOWMAN

Prerequisite: Algebra and Plane Trigonometry.

C3A-C3B. Plane Analytic Geometry and Differential Calculus. (3-3) Yr.

Prerequisites: Plane trigonometry and algebra. SHOWMAN

C4A-C4B. Differential Calculus, Space Geometry, and Integral Calculus. (3-3). SHERWOOD

Prerequisites: Course C3A-C3B.

C6. Introduction to Projective Geometry. (3). —

C8. College Algebra. (3). —

C10. Advanced Calculus. (2) I. SHERWOOD

C11. Determinants and Theory of Equations. (3). SHERWOOD

CIVIL ENGINEERING

- C1A-C1B. Plane Surveying. (3-3). Yr. SHOWMAN
Prerequisites: Plane Trigonometry and Geometrical Drawing. Fee, \$5.00 each half-year.
- C2. Computation and Mapping. (1). SHOWMAN
Required in the Engineering Colleges. Prerequisite: Plane Surveying.
- C8. The Materials of Engineering Construction. (2) II. SHOWMAN
Prerequisite: Sophomore standing.

ASTRONOMY

1. Elements of Astronomy. (3) I. SHERWOOD
- C3. Surveyor's Course in Spherical Trigonometry and Astronomy.
(1) II. SHERWOOD
-

MECHANIC ARTS

- T1A. Organization. (1). MANSFIELD
- T10A-T10B. Mechanical Drawing. (3-3) Yr. —
- CC. Instrumental Drawing. (3). —
- C3D. Drawing. (3). Descriptive Geometry. —
- C6A. Machine Design. (3). MANSFIELD
- T67. Architectural Drawing. (3). MANSFIELD
- T19. Woodwork. (5). PIERSON
- T12-T13. Pattern Making. (5-5) Yr. PIERSON
- C8A-C8B. Shop Work. (2-2) Yr. PIERSON
- C18. Shop Work. (3). In Summer Session. PIERSON
- T10A-T10B. Foundry Practice. (5-5) Yr. BROCKWAY
- T11A-T11C. Forge Practice. (5-5) Yr. CROSBY
- T12. Machine Shop Practice. (5). PHILLIPS
- T13. Machine Shop Practice. (5). PHILLIPS
- T14A-T14B. Machine Shop Practice. (5-5) Yr. PHILLIPS
- C9A-C9B. Shop Work. (2-2) Yr. PHILLIPS
- T15A-T15B. Auto Mechanics. (5-5) Yr. BROCKWAY
- T16A-T16B. Applied Electricity. (5-5) Yr. MARSH
- T16C. Applied Electricity. (5). MARSH

T17. Automotive Laboratory. (5).	MARSH
T18. Automotive Laboratory. (5).	MARSH
T19-T20. Applied Mechanics. (2-2) Yr.	MANSFIELD
T21-T22. Current Mechanics. (1-1) Yr.	MANSFIELD, PHILLIPS

MILITARY SCIENCE AND TACTICS

The courses in military training are those prescribed by the War Department for infantry units of the senior division of the Reserve Officers' Training Corps. The United States furnishes arms, equipment, uniforms, and some text books for the use of students belonging to such units. The University being responsible for text books and uniforms furnished by the United States, requires the student to deposit with the Comptroller \$33 to cover the cost of the text books and uniform issued him. This deposit must be made before the student files his study-list; the deposit is refunded at the close of the academic year or upon the student's withdrawal, provided the student then returns in good condition all articles issued him. An amount necessary to replace articles not returned by the student will be retained by the Comptroller.

Students who are members of the National Guard or of the U. S. Naval Reserve Force are authorized to wear their Guard or Naval uniform in their military training at the University, and, upon application to the Supply Officer at the Military Science Building, may be excused from paying the deposit for uniform. Such students will pay a deposit of \$3 to cover cost of text books issued them.

LOWER DIVISION COURSES

The lower division or basic courses are prescribed for all first-year and second-year undergraduate male students who are citizens of the United States, able-bodied and under twenty-four years of age at the time of admission to the University. A first-year or second-year student claiming exemption because of non-citizenship, physical disability or age will present to the Department of Military Science and Tactics a petition, on the prescribed form, for such exemption. Pending action on his petition the student will enroll in the courses prescribed for his year and enter upon the work of such courses.

1A-1B. Basic Military Training (first year). ($1\frac{1}{2}$ - $1\frac{1}{2}$) Yr.	—
2A-2B. Basic Military Training (second year). ($1\frac{1}{2}$ - $1\frac{1}{2}$) Yr.	—

MUSIC

T10A. A Teacher's Course in Music. (2) I.	WRIGHT
T11A-T11B. Kindergarten-Primary Music. (2) II.	WRIGHT
C2A-C2B. Orchestral Practice. (2-2) Yr.	BARNHART
C3A-C3B. Music Literature. (3-3) Yr.	BARNHART
C4A-C4B. Harmony. (3-3) Yr.	—
T8A-T8B. Music Education. (3-3) Yr.	WRIGHT
T9A. Music Observation. (1) II.	WRIGHT
T10A-T10B. Music Teaching. (See Department of Practice Teaching.)	WRIGHT
T11A-T11B. Voice. (4) II. Class lessons—a fee of \$15 each semester. Individual lessons by special arrangement with the instructor.	VAUGHN
C12A-C12B. Melodic Dictation. (2-2) Yr.	WRIGHT
T13A-T13B. Orchestral Instruments. (2).	BARNHART
T15A-T15C. Piano. (4) Either half-year. Class lessons—a fee of \$15 each semester. Individual lessons by special arrangement with the instructor.	RECTOR
T55A-T55B. Composition. (1-4) Yr.	—
T56A. Course in Experimental Psychology. (3) II. Required of all secondary music students.	FISHER
T59A-T59B. Conducting. (2-2) Yr.	—
T63A-T63B. Music Literature. (3-2) Yr.	BARNHART
T64A-T64B. Form and Analysis. (2-2) Yr.	BARNHART
T60A-T60B. Secondary Music Teaching. (5-5) Yr.	WRIGHT
T91A. Music Observation. (3) I.	WRIGHT
C1A-C1B. Choral Practice. (1-1) Yr.	—
C2C-C2D. Piano Ensemble. (2-2) Yr.	BARNHART

PHYSICAL EDUCATION FOR MEN**PREPARATION FOR THE MAJOR**

Required: Physical Education C1AB (1), C7AB (1), C8AB (1), C10BD (1); Chemistry C1A (5); Zoology C1A (4).

PRELIMINARY STATEMENT

Gymnasium Suit Fee.—All male students unless excused from physical education by formal petition are required to pay a gymnasium suit fee of \$5.00 at the time of registration. This fee entitles the student to the use of a regulation gymnasium costume during his University course. Tennis shoes must be furnished by the individual and may be obtained at club prices by applying to the Book Store. The University provides for the laundry of suits.

Medical Examination.—All students entering the University or returning are required to pass a medical examination. Men showing abnormality of bodily conformation or physical defects of any sort are classed as "special" and are given individual work and advice based upon the data of the medical and physical examinations.

Physical Tests.—Male students in the Junior College taking required physical education must pass a series of practical physical tests (see announcement on Bulletin Board in the Men's Gymnasium). Intrants are classified for their prescribed work on the basis of physical efficiency, determined through tests of health, strength, endurance, agility, ability to swim and skill in self-defense. Men qualified for the athletic division may take regular work in any type of sport offered. Men failing so to qualify, but not found defective in any essentials of health or bodily conformation will be assigned to work adapted to their special needs. The aim of the department is to promote men as quickly as possible into the athletic division.

Requirements.—Junior College men are required to take two hours per week for four semesters ($\frac{1}{2}$ unit credit per semester). Teachers' course men take two hours per week of practice work, two hours per week of recreation, and one hour per week of theory, all for two semesters (see courses T21A, B and T22A, B). Men wishing to major in physical education should consult with the chairman of the department immediately after registration.

Notices concerning all phases of the work of the department will be posted on the bulletin board of the Men's Gymnasium and must be read carefully by all. Men will be held strictly accountable for all regulations so posted.

Note concerning courses offered: The letters A and B after course numbers denote the work of the first and second semesters of the freshman year. The same holds true for the letters C and D in the sophomore year.

C1A, B, C, and D. Gymnastics and Class Games. ($\frac{1}{2}$).	COZENS
C2A, B, C, and D. Special Exercise. ($\frac{1}{2}$).	CCZENS
C3A, B, C, and D. Track. ($\frac{1}{2}$).	TROTTER
C4B and D. Baseball. ($\frac{1}{2}$).	COZENS

C5B and D. Basket Ball. ($\frac{1}{2}$).	COZENS
C6A, B, C, and D. Tennis. ($\frac{1}{2}$).	—
C7A, B, C, and D. Boxing. ($\frac{1}{2}$).	COZENS, EINSIG
C8A, B, C, and D. Wrestling. ($\frac{1}{2}$).	—
C10B and D. Swimming. ($\frac{1}{2}$) II.	—
C13A and C. American Football. ($\frac{1}{2}$).	TROTTER
C14A, B, C, and D. Games. ($\frac{1}{2}$).	COZENS, EINSIG
C15A, B, C, and D. Handball. ($\frac{1}{2}$).	—
T21A-T21B. The History and Theory of Physical Education. (2). Required of all men in teachers' courses during their first or second year.	COZENS
T22A-T22B. Practice in Physical Training Activities. (1). Required of all men in teachers' courses.	COZENS

PHYSICAL EDUCATION FOR WOMEN

C2. Hygiene. (2) I.	RAY
*C3. Hygiene. (3) I.	—
C5. Hygiene. (2) II.	MCLEAN
C9. Hygiene. (1) Either half-year.	MCLEAN
C52A-C52B. Prescribed Course for Freshmen. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	—
C52C-C52D. Prescribed Course for Sophomores. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Prerequisite: course C52A-C52B.	—
C53A-C53B. Corrective Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	GRUNEWALD
C53C-C53D. Corrective Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Prerequisite: course C53A-C53B.	GRUNEWALD
C60A-C60B. Folk Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Prerequisite: C52A-C52D.	—
C61A-C61B. Aesthetic Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Prerequisite: C52A-C52D.	—
C61C-C61D. Aesthetic Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Prerequisite: course C61A-C61B.	—
T62A-T62B. Aesthetic Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	—
T62C-T62D. Aesthetic Dancing. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr. Prerequisite: course C62A-C62B.	—

* Not to be offered, 1920-21.

C65A-C65B. Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	—
Prerequisite: C52A-C52D.	
C65C-C65D. Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	—
Prerequisite: course C65A-C65B.	
C66A-C66B. Gymnastics. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	—
Prerequisite: courses C65A-C65B, C65C-C65D.	
T70A-T70B. Plays and Games. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	—
T71A-T71B. Athletics. (1) I.	—
T71C-T71D. Athletics. (1) II.	—
T72A-T72B. Athletics. (1) I.	—
T72C-T72D. Athletics. (1) II.	—
T73A-T73B. Athletics. (1) I.	—
T73C-T73D. Athletics. (1) II.	—
T74A-T74B. Athletics. (1) I.	—
T74C-T74D. Athletics. (1) II.	—
T75A-T75B. Recreation. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	PALMER
T75C-T75D. Recreation. ($\frac{1}{2}$ - $\frac{1}{2}$) Yr.	PALMER
Continuation of course T75A-T75B.	
T76. History of Physical Education. (2) II.	—
T77. Principles of Physical Education. (3) I.	PALMER
T78. The Nature and Functions of Play. (3) II.	PALMER
T79. Child Development. (2) I.	GRUNEWALD
To be taken in conjunction with Psychology C2B.	
C91. Kinesiology. (3) I.	WALLACE
*55. Bacteriology. (3)	—
T56. Clinical Pathology. (3) I.	CLOSE
*57. Physical Diagnosis. (3) II.	—
*58. Physiology of Exercise. (3).	—
T59A-T59B. Therapeutic Gymnastics. (5) Yr.	GRUNEWALD
T50. Theory and Practice of Physical Examination. (2) I.	GRUNEWALD
T51A. Special Methods in Leadership of Elementary Activities. (2) I.	WALLACE, PALMER, HERSEY
T51B. Continuation.. (2) II.	
T51C. Continuation. (2) I.	

* Not to be given, 1920-21.

- T67A-T67B. Special Methods in Leadership of Secondary Activities.
(4) Yr. WALLACE, PALMER
- T68. Administration of Elementary Physical Education. (3) II. WALLACE
- T69. Administration of Secondary Physical Education. (3) II. WALLACE
- T10A. Practice Teaching. (2) Either half-year. HERSEY
- T11A. Practice Teaching. (2) Either half-year. HERSEY
- T63A. Secondary Practice Teaching. (2) Either half-year. —
- T64A. Secondary Practice Teaching. (2) Either half-year. —

TEACHERS' COURSES

- T10. Physical Education. (2) Either half-year. GRUNEWALD
- T11. Physical Education. (2) Either half-year. GRUNEWALD
- T7. Physiology. (4) II. CLOSE

PHYSICS

PREPARATION FOR THE MAJOR

Required: Physics C1A-C1B, C4A-C4B (12), or C2A-C2B, C3C-C3D (10); Mathematics C3A-C3B (6); Chemistry C1A-C1B (10).

Recommended: French or German.

The laboratory fee is \$4.00 per semester. This fee is charged for every course consisting wholly or in part of laboratory work.

- C1A-C1B. General Physics. (3-3) Yr. ADAMS
- C2A-C2B. General Physics. (3-3) Yr. —
Prescribed for premedical and agricultural students and open to other students who are taking course C3A-C3B.
- C3A-C3B. Physical Measurements. (1-1) Yr. —
Prescribed for premedical students, and open to other students who are taking course C2A-C2B. Equivalent to one-half of C3C-C3D.
- C3C-C3D. (2-2) Yr. —
- C4A-C4B. General Physics. (3-3) Yr. —
Prescribed for students in engineering and chemistry.
- C5. Magnetism and Electromagnetism. (3). ADAMS
Prescribed for students in the College of Mechanics, as the equivalent of Electrical Engineering 1.

POLITICAL SCIENCE

- C1A-C1B. Government. MARTIN
- C5A-C5B. Foreign Relations of the United States. MARTIN
- C3A-C3B. International Law. MARTIN

PRACTICE TEACHING**THE TRAINING SCHOOL***

The University Training School comprises a kindergarten, the six elementary grades, and the three years (7-9) of the junior high school. Pupils are admitted upon the same terms as to Los Angeles city schools. The school furnishes a thorough elementary and junior high school education.

An opportunity room affords to children of superior ability a chance to complete the work of the middle grades in less than the usual time with a fuller and richer curriculum than that of the ordinary grades. An adjustment room is also maintained in which children of the middle grades, who from one cause or another, are in need of special individual help in certain subjects receive such individual assistance as may be found necessary to put them on their feet educationally so that they may complete the work of a grade in which they might otherwise fail.

PRACTICE TEACHING

Ten semester hours of practice teaching are required of all candidates for the Elementary Teachers' Certificate except those who may be partially credited on account of teaching experience. No student is recommended for this certificate without having satisfactorily completed at least five semester hours of practice teaching in one of the training schools.

All students, except those who enter with second year standing, must have had a required course in the subject or subjects they are to teach before receiving the first assignment and must have reached full second year standing. Teaching 10A (five hours) is regularly taken in the first semester of the second year; teaching 10B (five hours) in the last semester of the course. Elective teaching (teaching 20 hours by individual arrangement) is offered to those who desire or who need additional training.

Secondary practice teaching is provided for in the high schools of Los Angeles city, under the supervision of the special departments of the Southern Branch of the University of California.

In addition to regular grade work opportunities for elective teaching are afforded in the adjustment room, in Americanization classes in Los Angeles day and evening schools, in playground work, garden classes, etc.

* In addition to the University Training School, portions of two Los Angeles city schools are utilized as supplemental training schools. In 1919-20 the Grand Avenue School and the Thirty-sixth Street School were so used. Some students are given the opportunity to do cadet teaching in other city schools under the supervision of the regular teachers and that of an Assistant Supervisor of Training from the University.

Weekly conferences under the direction of training teachers and supervisors are required in connection with each teaching assignment in the training schools.

A high standard of work is required of students in teaching. Those who are unable to attain a reasonably high standard may be denied recommendation for certification. Students who do not possess the qualifications necessary for a high quality of service are advised as soon as this can be discovered to turn their attention to some other line of work.

ASSEMBLIES

All candidates for teachers' certificates are required to attend a series of assemblies during the last semester preceding the completion of any teachers' course. These assemblies have to do with the student's relationship to the institution, to the Appointment Secretary, to public school officials by whom they are to be employed, and with other matters of importance to prospective teachers. These assemblies are in charge of the Supervisor of Training.

PRACTICE TEACHING COURSES

1. GENERAL ELEMENTARY GRADE TEACHING

Teaching 10A. (5). General Elementary Grade Teaching.

Teaching 10B. (5). General Elementary Grade Teaching.

Teaching 11A. (5). General Junior High School Teaching.

Teaching 20. (Hours by individual arrangement.) Elective General Grade Teaching.

Teaching 21. (Hours by individual arrangement.) Elective Junior High School Teaching.

2. KINDERGARTEN-PRIMARY TEACHING

Teaching K-P10A. Kindergarten-Primary Teaching.

Teaching K-P10B. Kindergarten-Primary Teaching.

Teaching K-P20. (Hours by individual arrangement.) Elective Kindergarten-Primary Teaching.

3. SPECIAL ELEMENTARY, JUNIOR HIGH, AND SECONDARY TEACHING

a. Fine Arts Teaching

- Teaching A10A. Elementary Fine Arts Teaching.
Teaching A10B. Elementary Fine Arts Teaching.
Teaching A60A. Secondary Fine Arts Teaching.
Teaching A60B. Secondary Fine Arts Teaching.
Teaching A20. Elective Fine Arts, and A70, Elective Secondary Fine Arts Teaching.

b. Industrial Arts Teaching

- Teaching I10A. Elementary Industrial Arts Teaching.
Teaching I10B. Elementary Industrial Arts Teaching.
Teaching. 70. Elective Elementary Industrial Arts Teaching.

c. Commercial Teaching

- Teaching Co11A. Junior High School Teaching in Commerce.
Teaching Co11B. Junior High School Teaching in Commerce.
Teaching Co60A. Secondary Teaching in Commerce.
Teaching Co60B. Secondary Teaching in Commerce.
Teaching Co21. Elective Junior High School, and Co70, Elective Secondary Teaching in Commerce.

d. Household Arts and Science Teaching

- Teaching HE10A. Elementary Home Economics Teaching.
Teaching HE10B. Elementary Home Economics Teaching.
Teaching HE11A. Junior High School Teaching in Home Economics.
Teaching HE60A. Secondary Teaching in Home Economics.
Teaching HE60B. Secondary Teaching in Home Economics.
Teaching HE20. Elective Elementary, and HE70, Elective Secondary Teaching in Home Economics.

e. Mechanic Arts Teaching

- Teaching MA10A. Elementary Manual Arts Teaching.
Teaching MA10B. Elementary Manual Arts Teaching.
Teaching MA11A. Junior High School Teaching in Mechanic Arts.
Teaching MA60A. Secondary Mechanic Arts Teaching.
Teaching MA60B. Secondary Mechanic Arts Teaching.
Teaching MA20. Elective Elementary Mechanic Arts, and MA70, Elective Secondary Mechanic Arts Teaching.

f. Music Teaching

- Teaching M10A. Elementary Music Teaching.
Teaching M10B. Elementary Music Teaching.
Teaching M11A. Junior High School Music Teaching.
Teaching M60A. Secondary Music Teaching.
Teaching M60B. Secondary Music Teaching.
Teaching M20. Elective Elementary Music, and M70, Elective Secondary Music Teaching.

g. Physical Education Teaching

- Teaching PE10A. Elementary Physical Education Teaching.
Teaching PE10B. Elementary Physical Education Teaching.
Teaching PE11A. Junior High School Physical Education Teaching.
Teaching PE60A. Secondary Physical Education Teaching.
Teaching PE60B. Secondary Physical Education Teaching. -
Teaching PE20. Elementary Physical Education, and PE70, Elective Secondary Physical Education Teaching.

ROMANIC LANGUAGES

FRENCH

PREPARATION FOR THE MAJOR

Required: 16 to 19 units in lower division courses in French.

Recommended: Latin, Greek, English, Philosophy 4A.

A-B. Elementary French. (5-5) Yr.	CERF, BECKMAN
C-D. Intermediate French. (3-3) Yr.	CERF, —
20A-20B. Advanced French. (3-3) Yr.	CERF

SPANISH

PREPARATION FOR THE MAJOR

Required: 16 to 19 units of lower division courses in Spanish; 6 units of some other Romanic language.

Recommended: Latin; History of Spain and Spanish Colonies; English; a modern language.

A-B. Elementary Spanish. (5-5) Yr.	BECKMAN, KRAUSE
C-D. Intermediate Spanish. (3-3) Yr.	BECKMAN
C5A-C5B. Advanced Spanish.	KRAUSE
Open only to students of Commerce.	
C10A-C10B. Commercial Spanish.	BECKMAN

REGISTER—PART XII

CALIFORNIA COLLEGE OF PHARMACY
ANNOUNCEMENT FOR 1920-21

MAY, 1920

University of California Bulletin

THIRD SERIES. Vol. XIII, No. 12

**CALIFORNIA COLLEGE
OF PHARMACY**

ANNOUNCEMENT

FOR

1920-1921

MAY, 1920

**SECOND AND PARNASSUS AVENUES
SAN FRANCISCO**

The matriculation examinations for the session of 1920-21 for the two years' course (Graduate in Pharmacy) will be held at the College on Saturday, August 28, 1920, at 9 a.m.

Matriculation examinations for the three years' course (Pharmaceutical Chemist) and for the four years' course (Bachelor of Pharmacy), see pages 24 and 25.

All communications should be addressed to the Dean, Professor FRANK T. GREEN, California College of Pharmacy, Second and Parnassus avenues, San Francisco, California.

THE UNIVERSITY

The University comprises the following colleges and departments:

I. IN BERKELEY

The Colleges of

Letters and Science,
Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, and the United States Agricultural Experiment Station, which includes stations at Berkeley and Davis, the forestry stations at Chico and Santa Monica, "Whitaker's Forest" in Tulare County, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County.)

Mechanics,
Mining,
Civil Engineering,
Chemistry.

The Schools of

Architecture,
Education,
Jurisprudence,
Medicine (first and second years).

The University Extension Division (offering instruction wherever classes can be formed or anywhere in California by correspondence, providing lectures, recitals, motion pictures and other material for visual instruction, giving guidance and suggestion to debating clubs, and offering aid to communities through its Bureau of Information and Social Welfare).

The California Museum of Vertebrate Zoology.

DEPARTMENTS OF INSTRUCTION IN THE COLLEGES AT BERKELEY

Agriculture (including Agricultural Education, Agricultural Extension, Agronomy, Pomology, Landscape Gardening and Floriculture, Viticulture, Soil Chemistry and Bacteriology, Soil Technology, Agricultural Chemistry, Nutrition, Citriculture, Genetics, Olericulture, Experimental Irrigation, Animal Husbandry, Poultry Husbandry, Veterinary Science, Dairy Industry, Farm Management, Entomology, Forestry, Horticulture, Parasitology, Plant Pathology, and Rural Institutions), Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Economics, Education, English, French, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Jurisprudence, Latin, Library Science, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Romanic Languages, Sanskrit, Semitic Languages, Slavic Languages, Social Institutions, Spanish, Zoology.

II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).

II. AT SANTIAGO, CHILE

The D. O. Mills Observatory, a branch of the Lick Observatory.

IV. IN SAN FRANCISCO

California School of Fine Arts,
Hastings College of the Law,
Medical School, third, fourth, and fifth years, including Hospitals,
The George Williams Hooper Foundation for Medical Research,
College of Dentistry,
California College of Pharmacy,
The Museum of Anthropology, Archaeology, and Art.

V. IN LOS ANGELES

Los Angeles Medical Department, graduate instruction only.

VI. AT DAVIS

The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils, and Veterinary Science.

VII. AT RIVERSIDE

The Graduate School of Tropical Agriculture.

VIII. AT LA JOLLA

The Scripps Institution for Biological Research.

IX. AT SWANTON

The Summer School of Surveying.

REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

REGENTS EX OFFICIO

His Excellency WILLIAM D. STEPHENS
Governor of California and President
of the Regents
Sacramento

CLEMENT CALHOUN YOUNG, B.L.
Lieutenant-Governor of California
Sacramento (276 Post st, San Francisco)

HENRY W. WRIGHT
Speaker of the Assembly
1009 Fair Oaks av, South Pasadena

WILL C. WOOD
State Superintendent of Public Instruction
Sacramento

GEORGE C. ROEDING
President of the State Agricultural
Society
Roeding Place, Fresno

BYRON MAUZY
President of the Mechanics' Institute
250 Stockton st, San Francisco

WARREN GREGORY, A.B., LL.B.
President of the Alumni Association
Merchants Exchange bldg, San Francisco

DAVID PRESCOTT BARROWS, Ph.D., LL.D.
President of the University
217 California Hall, Berkeley

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the Board.

ARTHUR WILLIAM FOSTER, (1932)
Southern Pacific bldg, San Francisco

GARRETT WILLIAM MCENERNEY (1936)
2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG (1932)
1521 Van Ness av, San Francisco

GUY CHAFFEE EARL, A.B. (1934)
14 Sansome st, San Francisco

JOHN ALEXANDER BRITTON (1930)
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1922)
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A., S.T.B. (1928)
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)
687 Wilton pl, Los Angeles

JAMES MILLS (1926)
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1936)
Fresno

MORTIMER FLEISHHACKER (1934)
Anglo-California Trust Company, San Francisco

GEORGE I. COCHRAN, LL.D. (1930)
501 West Sixth st, Los Angeles

Mrs. MARGARET SAETORI (1922)
725 West Twenty-eighth st, Los Angeles

OFFICERS OF THE REGENTS

His Excellency William Dennison
 Stephens
 President
 Sacramento

Mortimer Fleishhacker,
 Treasurer
 Anglo-California Trust Company, San
 Francisco

Comptroller, Secretary of Regents,
 and Land Agent
 220 California Hall, Berkeley

James M. Mannon, Jr., LL.B.
 Attorney
 1107 Merchants Exchange bldg, San
 Francisco

Robert Gordon Sproul, B.S.
 Assistant Comptroller, Assistant Sec-
 retary, and Assistant Land Agent
 220 California Hall, Berkeley

STANDING COMMITTEES OF THE BOARD OF REGENTS
 FOR THE YEAR 1920-21

Agriculture:

Regents Foster, Roeding, Dickson,
 Mills, Cochran, and Taussig.

Finance:

Regents Earl, Foster, Britton, Moffitt,
 and Taussig.

Grounds and Buildings:

Regents Britton, Wheeler, Bowles,
 Dickson, and Fleishhacker.

Lick Observatory:

Regents Fleishhacker, McEnerney,
 Young, Crocker, Mauzy, and
 Wright.

*Medical Instruction and University**Hospitals:*

Regents Crocker, Taussig, Britton,
 Earl, Moffitt, Ramm, Mrs. Sartori,
 and Bowles.

*Southern Branch of the University of
 California and Scripps Institution
 for Biological Research:*

Regents Dickson, Cochran, Gregory,
 Mrs. Sartori, Wood, Rowell, and
 Taussig.

Wilmerding School:

Regents Taussig, Earl, Moffitt, and
 Mauzy.

Library, Research and Publications:

Regents Bowles, Moffitt, Mauzy,
 Gregory, Wood, Earl, and Rowell.

Endowments:

Regents Crocker, Britton, Mrs. Sar-
 tori, Bowles, Cochran, McEnerney,
 and Fleishhacker.

Engineering:

Regents Ramm, Fleishhacker, Brit-
 ton, Roeding, and Bowles.

Jurisprudence:

Regents McEnerney, Cochran, Wheel-
 er, Gregory, and Young.

Letters and Science:

Regents Rowell, Wheeler, Ramm,
 Wood, Gregory, and Mills.

Committee on Conference with Faculty:

Regents Moffitt, Gregory, Britton,
 Taussig, Rowell, and Ramm.

Executive Committee:

This committee consists of the chair-
 men of all standing committees
 and the President of the Alumni
 Association.

* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

CALIFORNIA COLLEGE OF PHARMACY

Organized 1872

OFFICERS

President: GASTON E. BACON

Treasurer: K. B. BOWERMAN

Secretary: HAYDN M. SIMMONS

Dean: FRANKLIN THEODORE GREEN

Directors: GASTON E. BACON, JULES CASSELMAN, W. BRUCE PHILIP, K. B. BOWERMAN, CHARLES J. ABRAHAM, EDWIN DAL SCHMIDT, GEORGE BROMMELL

FACULTY

DAVID P. BARROWS, Ph.D., LL.D., President of the University of California.
FRANKLIN THEODORE GREEN, Ph.G., Professor of Chemistry, and Director of the Chemical Laboratories, and Dean.

FREDERICK WILLIAM NISH, Ph.G., Phar.B., Professor of Pharmacy, and Director of the Pharmaceutical Laboratory.

HENRY BENJAMIN CAREY, B.S., M.D., Professor of Materia Medica, Botany, and Pharmacognosy.

HADYN MOZART SIMMONS, Ph.G., M.D., Associate Professor of Materia Medica, and Lecturer on Toxicology; Associate Professor of Pharmacy.

HARLEY RUPERT WILEY, A. B. LL.B., Special Lecturer in Pharmacal Jurisprudence.

RICHARD J. DOWDALL, Ph.G., M.D., Medical Corps, U.S.A., Instructor in First Aid and Military Hygiene.

JUSTUS ENOS ZIMMERMAN, Instructor in Materia Medica, Botany and Pharmacognosy.

LEONARD SCOTT WHITMORE, Instructor in Chemistry.

CALENDAR**FORTY-NINTH ANNUAL SESSION**

1920

August 5, Thursday–August 10, Tuesday—Entrance examinations at Berkeley for students to matriculate for three- and four-year courses. Permits to enter the examination room must be secured in advance from the Recorder of the Faculties at Berkeley.

August 27, Friday, 9 a.m. to 12 m.—Office hours of the Dean. Students may matriculate at the office of the Recorder of the Faculties, California Hall, University of California, Berkeley, California, or in San Francisco.

August 30–31, Monday and Tuesday—Matriculation on credentials, College of Pharmacy, San Francisco. Entrance examinations for two- and three-year courses begin.

September 2, Thursday—Assignment of seats, desks, and lockers. Apparatus given out.

November 25, Thursday–November 27, Saturday—Thanksgiving recess.

December 22, Wednesday—Christmas vacation begins.

1921

January 5, Wednesday—College work resumed.

January 8, Saturday—Applications for Directors' Scholarships to be filed with Dean.

March 23, Wednesday—Charter Day exercises in the Greek Theatre.

April 14, Thursday–April 16, Saturday—Easter recess.

April 30, Saturday—Last day of instruction.

May 2, Monday—Final examinations begin.

May 11, Wednesday—Commencement Day.

ANNOUNCEMENT FOR 1920-21

The demand for properly qualified pharmacists was never so great as it is today. Not only are salaries higher than ever before for those employed as clerks, but there are more opportunities for advancement. The demand, however, is for good men, those having business capacity, industry, integrity, and a good pharmaceutical education. There is no likelihood that there will be any material change in this respect, unless it be to intensify the present demand for the kind of pharmacists now most needed. Employers are looking for men who have a college education, and the supply is not equal to the demand. Furthermore, the national and state pure food and drug laws call for such constant care in the making of pharmaceuticals, such vigilance in the examination and testing of drugs and chemicals, that no drug store can be considered properly equipped that has not in it at least one person who is capable of applying the tests of the Pharmacopoeia. And these laws have come to stay. They may be—probably will be—modified, but they will never be repealed, because the people demand them. Pharmacists must adjust themselves to public sentiment, and the public expects pure drugs and medicines and competent persons to manufacture and dispense them.

The necessary knowledge of the sciences on which the art of pharmacy is based, and the technical skill required to practice that art, are best acquired—most economically learned in a college of pharmacy. The time has gone by when any considerable amount of teaching is done in the drug store. Little, if any, didactic instruction is presented to the junior clerk, and not much technique is acquired. The demands of trade and the somewhat factory-like method of doing the technical work of the laboratory and prescription counter are alike ill adapted to the purpose of imparting instruction. In many drug stores but little manufacturing is done. In still more, practically no drug testing or assaying is thought of, and even where this is done, the facilities for doing it are usually limited, and the work is done by the proprietor or his chief clerk, no pains being taken to teach the juniors how to do it. Clerks are hired to do certain work whereby they can add to their employer's revenue, and they are paid in money, not in teaching. Usually the employer considers what he can get from an employee, not what he can give to him, either by verbal instruction, manual training, or ethical culture.

And so, while there is more need than ever for scientific knowledge and technical skill on the part of the pharmacist, he has less opportunity for obtaining these in the daily routine of pharmacy. The college is

more than ever a necessity. Without its aid it is impossible for a young man to fit himself in a reasonable time to meet the demands made upon him.

When the California College of Pharmacy was established in 1872 it was not so much needed as it is now, because public sentiment did not demand so high a degree of qualification as is now expected. Now it is a necessity that a pharmacist have a scientific pharmaceutical education, such as he cannot obtain by working in a drug store without college instruction.

It is this kind of instruction that the California College of Pharmacy is prepared to give. For a third of a century it has been doing its work, earnestly and honestly trying to help young people to become pharmacists in the true sense of that term. Affiliated with the University of California, its internal management and nearly all its teaching have been conducted by practical and experienced pharmacists of progressive tendencies. For years it has contended for better educated and better trained pharmacists, and it has no thought of giving up this contention. And inasmuch as the feeling in favor of demanding a college diploma of every applicant for examination by the state boards is growing so rapidly that several states have enacted laws imposing this condition, it is incumbent upon all students of pharmacy to observe the signs of the times and govern themselves accordingly.

The College premises are admirably adapted to the purpose for which they were planned. The building is situated near Golden Gate Park, is spacious, conveniently arranged and well lighted. It consists of three floors, two 50 by 150 feet, and one 50 by 100 feet, entirely devoted to pharmacy, also a basement, 50 by 150 feet, for recreation. It comprises two general lecture halls, each capable of seating one hundred and fifty students; five laboratories—the Chemical, the Pharmaceutical, and the Pharmacognostical, Chemical Research, and the Bacteriological; also review class rooms, museum, library, besides offices, women's room, cloak rooms and store rooms.

The subjects taught are chemistry, pharmacy, botany, materia medica, pharmacognosy, physiology, toxicology, and bacteriology. The teaching includes the technique of the microscope, spectroscope, and other instruments of precision, as well as the manipulations involved in chemical and analytical work, and in operative pharmacy. Courses of lectures are also given in pharmacaal jurisprudence, first aid, and military hygiene.

Courses of Instruction and Degrees.—(a) The completion of the two-years' course in pharmacy, based upon the foundation of satisfactory completion of two years of high school work or its equivalent, leads to the degree of Graduate in Pharmacy (Ph.G.). The hours of instruction

are from 8 A. M. to 12 M. daily, during which hours each student is expected to be in attendance.

(b) The degree of Pharmaceutical Chemist (Ph.C.) is awarded upon completion of a three-year professional course in pharmacy; that is, a course based upon satisfactory completion of four years' standard high school preparation, or its equivalent, and including three years of work in pharmacy of collegiate grade.

(c) The degree of Bachelor of Pharmacy (Phar.B.) is conferred upon completion of the four-year professional course based upon satisfactory completion of four years' standard high school preparation, or its equivalent.

Drug Store Experience.—The California College of Pharmacy no longer demands drug store experience as a condition of graduation. Not that it does not believe in the value of such experience, but because the college should not be held to account for any experience, information, etc., which candidates for graduation may receive outside. The degree is based entirely upon the instruction given and work done at the college.

A Course in Pharmacy Preparatory to the Study of Medicine.—Those of our graduates who have become practicing physicians are unanimous in declaring that their course in pharmacy has been of great value to them in medical practice. As drug store experience is not a condition of graduation, persons intending to study medicine can receive their pharmaceutical diplomas on the completion of their course in this college.

Present Aims and Purposes.—The California College of Pharmacy provides systematic instruction in subjects pertaining to pharmacy, and has, from the first, kept abreast of the best pharmaceutical schools in this country. It has not sought to secure the greatest number of students, but to do the greatest amount of good. It has created a sentiment among pharmacists in favor of higher education. It believes that the pharmacist should be possessed of some culture before he enters upon his special training, and therefore urges him to complete his high school course, if possible, before entering college.

Extra Instruction.—For the benefit of those students who are conditioned, or who from any cause do not make satisfactory progress in any subject, arrangements have been made whereby they can receive special assistance in those studies in which they are deficient. The hours of instruction are set for a time that does not interfere with the regular college work. A nominal charge is made for this special instruction.

Special Students.—The advantages of this college are offered to qualified persons who may wish to receive instruction and perform the laboratory work but do not wish to take the regular course, or to comply with all the conditions required to obtain a degree. Such persons may enter as special students in any or all of the subjects taught by paying the fees for such courses as are taken.

San Francisco as an Educational Center.—San Francisco as an educational center has few equals in the United States. In addition to its excellent grammar and high schools, seminaries, and academies, it has many institutions for academic, scientific, and technical instruction. Besides several large libraries, supported by subscription, it has an excellent free library, which is used by all classes of citizens. There are also manufacturing establishments, such as acid works, pharmaceutical and serum laboratories, glass works, oil and paint factories, etc., which the students are privileged to visit in company with the professors.

The Library Committee will be pleased to receive donations of books pertaining to pharmacy and the allied sciences.

Climatic Conditions.—It is never too hot or too cold in San Francisco to work with comfort. There is no exhaustion or sickness due to heat or cold; malaria and zymotic diseases are rare. The commodious building erected by the state for the College of Pharmacy is a delightful place to work in, being spacious, light, airy, and well ventilated. The view from the laboratories is unparalleled, overlooking Golden Gate Park, the Golden Gate, and Mount Tamalpais.

Boarding and Lodging.—Board and lodging can be obtained in San Francisco for from thirty to thirty-five dollars a month, and restaurants abound in which meals can be had from twenty-five to fifty cents. Single furnished rooms may be had, without board, for from eight to ten dollars per month.

Employment.—There are about three hundred and fifty drug stores in San Francisco and vicinity (Oakland, Berkeley, Alameda, San Rafael, etc.), and of late years practically all who wish to do relief work while attending college have done so, receiving fair compensation for the services rendered. In this way some students earn their board and carfare and others a less amount. The Dean keeps a register for the purpose of bringing employers and employees together.

The Directors' Scholarship of a full year's tuition in the graduate class is awarded each year to the senior student who, in the judgment of the Faculty, is most likely to do the best work in one or more of the subjects taught in the college. Applications for this scholarship must be made to the Dean not later than the first Thursday in January.

THE FAIRCHILD SCHOLARSHIP.

“The Fairchild Scholarship is to be awarded on the basis of a competitive examination to candidates who are high school graduates and who have successfully finished their first year's work in a school or college of pharmacy or department of pharmacy of a university, member of the American Conference of Pharmaceutical Faculties. Each school, college or department of pharmacy is allowed and limited to two candidates.”

REQUIREMENTS FOR ADMISSION

A. FOR THE DEGREE OF GRADUATE OF PHARMACY

1. Applicants must be at least seventeen years old, except in the case of graduates of high schools, of accredited schools, of normal schools, or of other institutions of a grade equal to the above, who may be admitted at sixteen years of age. (While it is advisable that students shall have had one or two years' practical training in a drug store before entering the college, it is not required.)

2. Applicants will be accepted who bring any of the following credentials:

- (a) Certificates of graduates from high schools.
- (b) Diplomas of graduation from schools or academies accredited by the State University. (See *Circular of Information of the University of California*.)
- (c) Certificates of sufficient standing in other institutions of collegiate grade.
- (d) Diplomas from normal schools of this or other states.
- (e) First-grade teachers' certificates of this or other states.
- (f) Certificate of having completed satisfactorily the second year's course in a high school in this or other states.

3. Applicants who do not present any of the foregoing credentials will be examined in the following branches:

- (a) *English*. Grammar and composition.
- (b) *Geography*.
- (c) *Freehand Drawing or Modern or Ancient History*.
- (d) *Arithmetic*. Fundamental rules; fractions; common and decimal; denominate numbers, percentage; proportion; weights and measures, metric, apothecaries', and avoirdupois.
- (e) *Algebra*, to quadratics with one unknown quantity.
- (f) *Latin*. Elementary. The applicant will be expected to be able, to translate simple Latin sentences into English, and vice versa, and to analyze grammatical forms; or, read pharmaceutical Latin, interpreting its abbreviations.
- (g) *Geometry*. Elementary, including mensuration of solids.

The subject matter covered by the entrance examinations in the California College of Pharmacy is as follows:

English.—Reading and writing English correctly, giving attention to composition rather than to grammar, as we care little for the technical grammar. Text-book—California State Series Advanced Grammar.

Geography.—Physical rather than political geography, giving attention to the physical features of the continents and their effects upon the climate, and consequently, upon the vegetable and the animal life. Text-book—California State Series Advanced Geography.

Drawing.—The ability to draw simple objects, as chair, book, box, leafy branch of a tree, or leaf, etc. No book required.

Arithmetic.—The announcement speaks fully on this subject. Proportion, percentage, fractions, and metric as well as English systems are of special importance. Text-book—California State Series Advanced Arithmetic.

Algebra.—The four fundamental operations, addition, subtraction, multiplication and division, together with factoring and fractions. Text-book—Wentworth's Algebra.

Latin.—The announcement speaks fully on this subject. Any elementary Latin book.

Geometry.—The measurement of lines, angles, surfaces and solids. Usually given under the heading of "Mensuration." Text-book—California State Series Advanced Arithmetic, or any other Advanced Arithmetic.

A condition could be carried in any two of the above named subjects, said condition to be removed during the first year.

An applicant who fails to pass the entrance examination may be conditioned in not more than two subjects, in which he will be re-examined after three months. Should he again fail, his fees will be refunded, except that the sum of twenty-five dollars will be retained, which will be placed to his credit if he should return to the college and pay the balance of his fees within two years.

Applicants who desire to be matriculated without examination for the course leading to the degree of Graduate in Pharmacy may present their credentials to the dean at any time before the opening of the college on September 2, 1920. All others will present themselves for examination at the college on **Thursday or Friday, August 26th or 27th, at 9 a. m.**

Beginning with the college year 1922-23, the minimum requirement for admission to the two-year course leading to the degree of Graduate in Pharmacy will be graduation from an accredited high school of California or the educational equivalent thereof.

(Present requirement is completion of two years of high school work. Proposed change is in accordance with a resolution adopted by the American Conference of Pharmaceutical Faculties.)

**B. FOR THE DEGREES OF PHARMACEUTICAL CHEMIST (PH.C) AND
BACHELOR OF PHARMACY (PHAR.B.)**

Applicants will be matriculated who have received a degree in Letters or Science, or who have been matriculated in the University of California, or who present a diploma from an accredited high school or other institution whose credentials will be accepted for entrance to the College of Letters and Science of the University. Such diplomas or credentials should be presented to the Dean before August 5, 1920. Those who cannot present such credentials are required to take the entrance examinations at Berkeley. Applications by mail for examination permits should be sent to the Recorder of the Faculties at Berkeley. These permits must be secured in advance.

Matriculation examinations at Berkeley will be held from Thursday, August 5, to Thursday, August 10, 1920.

The examinations will be prepared and conducted by such officers as may be appointed by the departments.

COURSES OF INSTRUCTION, 1920-21

CHEMISTRY

FIRST YEAR

Inorganic and Didactic.

Professor GREEN.

The course of instruction begins with the phenomena of changes, physical and chemical. The lectures are followed by experiments by the student in the laboratory, illustrating the principles and facts spoken of.

Theory is considered when the student lays the foundation of simple chemical knowledge through experiments which he is taught to carry out. The construction of chemical formulae is then dwelt upon, and is followed by stoichiometry. In the course of study, the groups typified by the elements hydrogen, oxygen, nitrogen, chlorine, and carbon are described, with their compounds. Then follows the chemistry of the metals, with their oxides and salts. They are taken up in the order of their analytical classification, with this exception, that the alkalis and alkali earths are mentioned first. The chemistry of inorganic materia medica is made a feature.

SECOND YEAR

Organic and Didactic.

Professor GREEN.

This course in organic chemistry consists of a series of lectures, together with laboratory work. The subjects are the aliphatic hydrocarbons of the paraffin, olefine, and the acetylene series. Also the derivatives of the open-chain hydrocarbons, viz., the halogen derivatives, alcohols, ethers, sulphur derivatives, aldehyds, ketones, acids, esters, amins, amids, carbohydrates, carbonic acid, and cyanogen derivatives.

The course is continued so as to include the cyclic hydrocarbons and derivatives. These comprise the phenols, cresols, diatomic phenols, likewise the aromatic aldehyds, ketones, and acids; in fact, cyclic compounds of pharmaceutical interest claim the greatest attention. The organic bodies containing nitrogen are then considered, especially the alkaloids.

This course includes the study and classification of the modern synthetic remedies.

CHEMICAL LABORATORY

FIRST YEAR

Experimental.

Professor GREEN.

The course begins with examples of chemical action, followed by the analysis and synthesis of simple things. The chemistry of the gases follows, the student isolating oxygen, hydrogen, nitrogen, chlorine, and experimenting with their compounds. Then the non-metals are considered and their properties investigated. The theory of the manufacture of salts and acids used in pharmacy, with their doses, follows, together with identification of the official acids, oxides, metals and salts. This completes the first part of the junior year. Then the properties of the cations are shown by reagents, together with the behavior of the anions thus leading to the study of analytical chemistry.

Qualitative analysis, based on the tests in the United States Pharmacopoeia, completes the term. In adopting such a wide range of study it is the aim to have typical processes of precipitation, neutralization, crystallization, and analysis carefully and correctly performed, rather than compel the student to do hurried work.

SECOND YEAR

Analytical and Experimental.

Professor GREEN.

The course commences with elementary crystallography and the recognition of each system, with examples chosen from official salts. Models, both opaque and transparent, are used as aids. Then follows a short laboratory course in organic chemistry. The work is intended to elucidate classes and types. The student then begins analytical work which embraces a systematic course of quantitative chemical analysis, volumetric gravimetric, and colorimetric. This is a necessity in the education of a practical pharmacist, and the course is shaped to this end. Quantitative (gravimetric) chemical analysis and manipulation, and volumetric analysis and its application to practical pharmacy, complete the first senior session.

Methods for the determination of the melting points are studied, with examples, such as melting point of petrolatum, cacao butter, lard, the waxes, salol, naphthaline, and acetanilid. The chemical tests for the new official synthetic compounds, as well as some in frequent use that are not recognized by the United States Pharmacopoeia, are carried out not alone as to identity but also with a view to the detection of impurities.

Qualitative and quantitative analysis of the urine is then studied.

The course concludes with experimental work in the identification and separation of poisons. This constitutes the chemical side of toxicology.

THEORY AND PRACTICE OF PHARMACY

FIRST YEAR

Didactic and Operative.

Professors NISH and SIMMONS.

Theoretical pharmacy is taught by lectures and reviews explanatory of the operations and processes employed in laboratory work, while operative pharmacy is taught by requiring the student to perform the operations himself under supervision. The course begins with lectures on elementary pharmacy, the laboratory work beginning with the simpler pharmaceutical processes, the operations being first explained in the lecture room. By teaching theoretical and practical pharmacy, simultaneously, as far as possible, both are better understood and their study made more interesting.

Beginning with a notice of the pharmacopoeias of Western nations, the systems of weights and measures used by them, and the apparatus employed for weighing and measuring, the student passes on to the subject of specific gravity and the methods of estimating the same. Then follows a consideration of the application of heat to pharmacy, and of the measurement of heat by different thermometers. After this the simpler operations of pharmacy are taken up, such as solution, evaporation, distillation, sublimation, precipitation, filtration, dialysis, crystallization, etc. Comminution is then explained—slicing, bruising, grinding, and pulverizing, in mills, in mortars, and by other means; also sifting, elutriation, filtration, clarification, and decoloration.

The various processes of extraction employed in pharmacy are then considered, such as infusion, decoction, maceration, digestion, percolation or displacement, repercolation, expression, etc. Then the practical operation of these processes is shown in the preparation of the official waters, syrups, infusions, decoctions, tinctures, followed by mixtures, emulsions, ointments, cerates, oleates, etc. The manufacture of suppositories, pills, triturates, troches, and effervescent granular salts concludes the work of the year.

Identification.—During the term practical work is given in the identification of pharmaceutical preparations, manufactured by the students in the laboratory.

SECOND YEAR

Didactic and Operative.

Professors NISH and SIMMONS.

The senior course is a continuation of the work begun in the junior year, but gradually leads on to operations requiring more skill and care.

It includes lectures and reviews, followed by laboratory work on the manufacture of chemical syrups, the official liquors, solid and fluid extracts, scale salts, spirits, resins, glucosides, alkaloids, etc., so that when the course is completed, the student has made one or more of almost every type of preparation in the United States Pharmacopoeia and National Formulary.

As this work proceeds, the processes of percolation, distillation, etc., are operated by the students, and each process is explained. The student is required to know the reason for every detail of each process. The menstrua employed in galenical preparations being dependent upon the chemical constituents contained in the drugs operated upon, this course forms a complement with that on organic materia medica and pharmacognosy.

The pharmacy of the new synthetic remedies receives due attention. In the lectures on pharmacy is included a consideration of the inorganic materia medica, so that nearly all the official drugs and preparations in the pharmacopoeia are noticed, and the student is instructed as to the nature, the preparations, and the uses of practically all the more important official drugs, chemicals and medicants.

Assay Work.—Several laboratory sessions are devoted to the processes of assaying. Students are required to make gasometric estimations of solutions of hydrogen dioxide and of spirit of nitrous ether; also alkaloidal assays of such drugs as opium, cinchona, nux vomica, belladonna, hydrastic, etc. Commercial samples of pepsin and pancreatin are estimated to determine their active valuation.

The work of preparing some of the standard toilet articles, with the capping and wrapping of the containers is carried out in the laboratory.

Prescription Work.—The course includes about twelve lectures as well as the actual dispensing of prescriptions. These deal with all the details of the management of the prescription counter, the subject of incompatibilities being fully considered. Many difficult or obscure prescriptions are submitted to the students, who are called upon to deal with them as they deem best. Their knowledge of weighing, measures, percentages, doses, etc., as well as their skill in compounding, is tested by this work in the laboratory.

Identification.—During the term practical work is given in the identification of pharmaceutical preparations, manufactured by the students in the laboratory.

BOTANY AND MATERIA MEDICA**FIRST YEAR**

Courses 1 and 4 are continuous lecture and recitation courses during the first year. Courses 2, 3 and 4 are continuous laboratory courses during the first year.

1. General Botany and Taxonomy:**Professor CAREY.**

A course of lectures on the domains of botany, referring especially to the cell and cell-contents; general morphology, and physiology of cells, tissues, and organs; the absorption, assimilation, and storing of food-substances; occurrence and formation of cell-contents; ascent of cell-sap; phyto-syntax; symbiosis; movements of plants; pollination and fertilization of plants; origin of domestic plants; influence of cultivation, etc.

This course is supplemented by field excursions for the purpose of studying the local flora, especially from the ecological and economic standpoint. Each student is required to analyze a number of flowering and fruiting plants. Special attention is given to taxonomy.

The course also includes lectures and recitations on the gross structure of plant organs, special attention being given to leaf-modification, phyllotaxy, inflorescence, flowers, fruits and seeds. The principles of classification and nomenclature are explained. This course is intended to prepare the student for an intelligent study of the gross structure of vegetable drugs and the identification and classification of the more common plant forms.

2. Microscopy.**Professor CAREY.**

Study of the optical properties of mirrors and lenses, and the mechanism and manipulation of the compound microscope; comparison of the more important microscopes now in use; the properties and uses of micro-reagents; the cutting of sections and preparation of microscopic mounts. This course is a necessary preparation for courses 3 and 4.

3. The Histology of the Cryptogams.**Professor CAREY.**

Laboratory course in the study of the histology of types of cryptogamous plants, as algae, fungi, lichens, liverworts, mosses, and fern. Special attention is given to the evolution and biological relationship of the plant groups referred to as revealed by their structure. The evolution and modification of cells, cell-contents, tissues, and organs; alterations of generations and spore-formation are also considered.

4. The Histology of the Phanerogams. (To be announced.)

The laboratory course is a continuation of course 3, and consists of the study of the histology of coniferous, monocotyledonous, and dicotyledonous plants. Special attention is next given to cell-modification and cell-content, so as to prepare the student for the intelligent study of the histology of vegetable drugs. Suitable micro-chemical reagents are employed to aid in differentiating cells, tissues, and cell-contents.

5. Pharmaceutical Botany. (To be announced.)

A course of lectures on the history and commerce of vegetable drugs, the range, occurrence and distribution of drug-yielding plants with their special morphological characteristics and constituents, etc. A special study of the cultivation of drug-yielding plants in California. What drug-yielding plants may be cultivated profitable in the various geographic areas of the United States, etc. This course forms the connecting link between the courses in botany and in pharmacognosy.

6. Materia Medica. (To be announced.)

Lectures and recitations on the history, character, gross structure and properties of drugs. Two sessions each week.

One hour a week will be devoted to materia medica following the classification of organic drugs by the natural orders.

PHYSIOLOGY AND FIRST AID**7. Human Anatomy and Physiology.** Professor CAREY.

Lectures and recitations intended to acquaint the student sufficiently with the morphology and physiology of the human body, to enable him to understand the processes of digestion, assimilation, circulation, respiration, and nerve action, and the physiological action of drugs.

8. First Aid and Military Hygiene. DR. DOWDALL.

(a) Instruction and demonstration in first aid. Treatment for injuries and emergencies. One hour a week.

(b) Drill in the transportation of wounded, injured and sick. One hour a week.

(c) Lectures and recitations including the principles of hygiene and sanitation with special reference to personal hygiene, physical training, preventable diseases, clothing, water supply, food and its preparation, the sanitation of dwellings and ships, the disposal of wastes, conditions peculiar to tropic and arctic zones, the hygiene and sanitation of marchers, camps, and battlefields, and the organization and function of the Medical Corps of the United States Army. One hour a week.

(d) Instructions in the duties of a pharmacist in the Medical Corps of the United States Army. One hour a week.

MATERIA MEDICA**SECOND YEAR****9. Materia Medica.****Professor CAREY.**

Lectures and recitations on the nomenclature, natural order, botanic source, part official, habitat, constituents, official preparations, properties, action, and uses of drugs, and the doses of their preparations. In this course not only all the official drugs and their preparations but the newer ones will be considered, the physiological action being especially emphasized. The student in actual practice handles the newer drugs of value long before they receive official recognition; hence the reason for acquainting him with these. As far as possible the newer drugs will be exhibited in class work. Two hours a week.

10. Materia Medica Review.**Professor SIMMONS.**

One hour a week will be devoted to materia medica following the classification of organic drugs by the natural orders. This is accomplished by the demonstrations with samples of crude drugs for macroscopic study. The features of this course are classification, together with a knowledge of constituents and use in pharmaceutical practice.

PHARMACOGNOSY AND BACTERIOLOGY**SECOND YEAR****1. Pharmacognosy.****Professor CAREY.**

This course consists of the macroscopical and microscopical study of the more important official and unofficial vegetable and animal drugs. Attention is given to the history of drugs; the habitat and range of drug-yielding plants and their botanical characters, together with the characteristics of the order to which they belong; active and inert constituents; the influence of cultivation on the properties of drugs; the common drug adulterants, the macroscopical and microscopical study of powdered drugs and spices, with special reference to the detection of adulterants, and the identification and comparison of pure and adulterated products; the modes of collecting, manner of curing, garbling, powdering, sifting, and preserving drugs; drug parasites; causes which lead to the deterioration of drugs; drug sophistication, accidental and criminal; relationship of active and inert drug constituents to methods of extraction; the influence of cultivation on the properties and physiological action of drugs; time of collecting.

2. Bacteriology.

(To be announced.)

This course consists of lectures, recitations, and laboratory demonstrations. It will include a discussion of the occurrence, range, and distribution, the morphology and physiology of microbes; microbes in health and disease; the use of microbes in the various industries; disinfectants and disinfection; immunity, natural and acquired; phagocytosis, opsonins, toxins, bacterins (vaccines), tuberculins, phylacogens, sanitation, etc. The course is intended to give the student a general view of the subject with special reference to its bearings upon pharmaceutical practice. It is also a preparatory course to the work of the third or graduate year.

TOXICOLOGY

Professor HAYDN M. SIMMONS

This course consists of lectures and recitations. It includes the history of toxicology, with definitions of terms, and a sketch of the field of usefulness of this subject to the pharmacist. The influences of habit, tolerance, and idiosyncrasy are fully considered.

Particular attention is given to dosage, medicinal, toxic, and lethal. Also absorption, elimination, and cumulative actions of poisonous substances. The signs and symptoms of poisons are studied in each case, and antidotes and medical treatment receive attention.

Text-book: Brundage's Toxicology.

PHARMACAL JURISPRUDENCE

Mr. H. R. WILEY

Preliminary Course.

This is to prepare students to understand the law as applied to pharmacy.

History and development of the law; Constitution of the United States; The State Constitution; federal law and state law in their relation to each other; definitions. 2 lectures.

Principles of the Law Applied to Pharmacy.

This course deals with the broad responsibility and liability of the pharmacist under the general principles of the law. Its purpose is to acquaint him with his risks as well as his rights, that he may minimize the one and more fully enjoy the other.

The origin, history and scope of pharmacal jurisprudence; the nature of contracts, and the implied contract of guaranty on the part of the pharmacist; liability for negligence (case law); liability for error (case law); liability of manufacturing pharmacist (case law); contributory

negligence as a defense, and other special features; important business features, insurance, patents, copyrights, expert witness, ownership of prescription, etc. 7 lectures.

Statutes or Positive Law Bearing upon Pharmacy.

There is probably no field of legislative activity in which the morality of the age is expressing itself more vigorously, at the present time, than in that pertaining to pharmacy. It tends to prove both a growing morality and a growing profession. The path of business in which the modern pharmacist must walk has become very straight and narrow—business failure on one side, fines or jail on the other. While this may convince him of his importance in public estimation, it also makes it necessary that he be informed as to his rights and forewarned of the dangers that await him. The following course of lectures is designed for this end:

The necessity for and the constitutionality of statutes regulating the practice of pharmacy; the legal boundary between pharmacy and medicine; the California statute regulating the practice of pharmacy; the statutes regulating the sale of poisons, hours of employment, the sale of tobacco to minors, the sale of insecticides, etc., itinerant vendors, etc., considered respectively; the Federal Pure Food and Drugs Act, and the California Pure Drugs Act; the study of cases under the foregoing statutes and acts. 7 lectures.

GRADUATE COURSES*

THIRD AND FOURTH YEARS

The graduate courses are intended to meet the needs of two classes of persons—those desiring to continue their studies beyond the customary requirements for the degree of Graduate in Pharmacy and to receive the Bachelor's degree, and those who wish for special instruction in the theory and technique of the branches of science included in a course of pharmacy but who are not candidates for graduation.

Students desiring to obtain the degree of Ph.C. or Phar.B., already possessing the degree of Ph.G., whether graduates of this college or of other colleges requiring equivalent qualifications for graduation, are admitted to this course without examination, if they were matriculated upon qualifications that would have admitted them to the College of Letters and Science of the University of California.

The course consists of thirty-two weeks' instruction, including quantitative chemical analysis, toxicology, the chemistry of the urine, bac-

* These courses are subject to change. The full details of the third as well as fourth-year courses will be given upon application.

teriology, the assay of drugs, foods, and pharmaceuticals, and advanced work in microscopy and pharmacognosy. Upon completing the course, with attendance, presenting a thesis showing original work, and passing all examinations the successful candidate will receive the degree of Pharmaceutical Chemist after three years' work, or Bachelor of Pharmacy after four years' work.

Other students who are not candidates for the bachelor's degree, or the pharmaceutical chemist's, whether seeking to qualify themselves to serve as examiners under the pure food and drugs laws or simply desiring special advanced instruction, will be admitted on giving proof by examination or otherwise of their fitness to take up the work with advantage to themselves and with credit to the college. Provision has been made for those who may wish to take these courses but have not acquired the knowledge and technique of advanced pharmacy, analytical chemistry, and microscopy which are needed to pursue profitably the line of study required. Such persons will be required to do preliminary work in order to fit themselves for the courses. On satisfactorily completing the course or courses they will receive certificates of record.

PHARMACY AND CHEMISTRY

THIRD YEAR

Advanced Pharmacy.

Professor NISH.

This course is offered with the idea of qualifying students for the more highly technical processes involved in drug assaying and the standardization of pharmaceutical preparations.

It includes the following estimations: the per cent of alcohol and of extractive in samples of galenicals; the per cent of iodine in the official and proprietary preparations containing iodine; the per cent of arsenic in the official and proprietary preparations containing arsenic; the digestive power of samples of pepsin and of the various preparations containing pepsin; the digestive power of pancreatin and of the various preparations containing pancreatin; the per cent of available oxygen in samples of Aqua Hydrogenii Dioxide and other preparations carrying hydrogen peroxide.

Gasometric estimations are made of several samples of Spiritus Aetheris Nitrosi.

The per cent strength of such ointments as sulphur, zinc oxide mercurial and ammoniated mercury, is ascertained by methods best suited for their estimation.

Alkaloidal Assaying.—The assay process of the Pharmacopoeia and other approved methods are carried out for the valuation of all vegetable drugs and their preparations possible of assay.

The student is required to carry on individual work, to keep an accurate record of all processes and their results, and to submit the completed record at the end of the course. This record shall constitute a report of the year's work in pharmacy.

Chemistry: Analytical and Applied.

Professor GREEN.

This course is a continuation of the senior laboratory work, but in addition to dealing with the chemical examination of drugs and medicinal preparations, it aims to fit pharmacists to become analysts of foods.

The course comprises the assay of certain drugs and spices for the purpose of estimating the proportion of the most valued constituents; also the complete analysis of others, determining the ash, fibre, sugars, oils, resins, alkaloids, glucosides, and other active principles.

Fixed oils, fats, and waxes are analyzed according to the U. S. P. methods, and also by the official and provisional methods of the Division of Chemistry of the Department of Agriculture.

Essential oils are assayed and tested by the U. S. P. methods.

The spectroscope is used in the recognition and study of the alkalies and alkali-earths. Also the absorption spectra of colors are observed.

Refractometric studies are made by means of the Abbe and the immersion refractometer.

Water analysis from its sanitary aspect is taught.

Attention is given to the chemistry of the sugars, including the gravimetric and polarimetric methods in use.

Toxicology, embracing the study of the inorganic, volatile, and organic poisons, receives the student's attention at the latter part of the course.

The course includes a study of the chemistry of the urine, with the qualitative and quantitative estimations of its constituents, both normal and pathologic.

The period of study parallels the other chemical laboratory courses.

MICRO-ANALYSIS AND BACTERIOLOGY

Histology of Foods and Drugs.

Professor CAREY.

This course will consist of a microscopical examination of food products and drugs and their more common adulterants. Its aim is to prepare the student to meet the demands of the pure food and drug laws. It will conform as nearly as possible with the methods of study and investigation recommended by the United States Department of Agriculture.

Bacteriology.

Professor CAREY.

This course consists of laboratory work, including the preparation of culture media, culture methods, and methods of staining; the culture, examination, and identification of some of the more common microbes of earth, air, and water; a study of the nature of opsonins and of toxins, antitoxins and microbic products generally. Furthermore, each student is assigned some special work, as the study of the microbic contaminations of pharmaceutical preparations, of water, of foods, etc. There are occasional seminar meetings for the purpose of reading papers, comparing notes and reporting progress.

PHARMACY AND CHEMISTRY

FOURTH YEAR

Advanced Pharmacy.

Professor NISH.

1. *The preparation and purification of inorganic chemical compounds.*—The mineral deposits in the states west of the Rocky Mountains furnish an abundant source for some of the most interesting and valuable inorganic salts. The salts of potassium, sodium, lithium, ammonium, magnesium, calcium, aluminum, chromium, boron, zinc, manganese, iron, silver, mercury, sulphur, and arsenic offer an attractive list from which the student can make a selection for this particular line of work.
2. *The preparation and purification of organic compounds.*—Such organic acids as acetic, citric, and tartaric are produced from the crude materials which are quite easily obtained, particularly the latter two, owing to the cultivation of the citrus fruit and of the vine in California. A number of synthetic compounds are produced from the bitumen and the petroleum which occur in abundance. Ether, chloroform, chloral, thymol, iodine, iodoform, terpin hydrate, ethyl nitrite, ethyl acetate, and a number of other organic compounds are prepared in the laboratory.
3. *The preparation of compressed tablets, hypodermic tablets, ampules, toilet creams, dental creams, mulls, pastes, etc.*—Each student is required to submit formulas, to prepare and to present in a marketable form these and a number of similar pharmaceutical and commercial products.
4. *The preparation of diagnostical reagents for clinical tests.*—Such diagnostical reagents as may be required in the Department are prepared in the pharmacy laboratory.

5. *Sterilization*.—Special attention is given to the subject of sterilization. This work is carried out in connection with that presented in the other branches. The student is required to carry on individual work, to keep an accurate record of all processes and their results, and to submit the completed record at the end of the course. This record shall constitute a report of the year's work in pharmacy.

Pharmaceutical Analysis.

Professor GREEN.

The purpose of this course is to train the student in the study of chemical control. The preparations manufactured in the advanced pharmaceutical course will be analyzed not alone for their normal constituents, but their impurities estimated as well. It is designed also to familiarize the student with the analysis of toilet requisites, such as face, shaving, and massage creams and lotions; face, bath and tooth powders, also washes and pastes; hair preparations: such as dressings, depilatories, the so-called tonics, dyes, stains and bleaches, also shampoos. Attention will be given to dermatological and massage preparations, also the analysis of various remedies and galenical compounds.

The practice of pharmaceutical analysis as applied to toilet preparations and remedies lacks completion as far as written or published knowledge is concerned. Much remains undeveloped in this branch of analytical chemistry. The course is offered as an aid to the pharmacist who has a trend toward chemistry, yet desires to pursue pharmacy with as little digression as possible.

MICRO-ANALYSIS, MICROBIOLOGY AND HYGIENE

FIRST HALF YEAR

- I. *Micro-Analysis*.—A laboratory course in the microscopical examination of foods and drugs.
Text-book: Winton, *Microscopy of Foods*; Schneider, *Powdered Vegetable Drugs*.
- II. *Laboratory Bacteriology*.—The bacteriological examination of foods and drugs, including the standardization of disinfectants.
Text-book: Schneider, *Bacteriological Methods in Foods and Drugs Laboratories*.
- III. *General Microbiology*.—This is a lecture course and is a continuation of the lecture on pharmaceutical bacteriology given during the second year of the regular two-years' course in pharmacy. Special attention will be given to zymology, immunology and serology.

Text-book: Pittfield, A Compend of Bacteriology.

IV. *General and Special Biology*.—A course of lectures and recitations supplemented by laboratory exercises, giving special attention to those organisms concerned in the dissemination of disease.

Text-book: Hamaker, The Principles of Biology.

Professor CAREY.

SECOND HALF YEAR

I. *Micro-analysis*.—Course begun in the first semester continued.

II. *Laboratory Bacteriology*.—Course begun in the first semester continued.

III. *Public Health and Hygiene*.—A lecture course supplemented by recitations and special reading.

Text-book: Price and Pedersen, Hygiene and Public Health.

IV. *Parasitology*.—This course is supplementary to course (IV) of the first semester.

Text-book: Terms, Parasitology.

V. *Biochemic Assay of Drugs*.—A study of the methods employed.

Text-book: Pittinger or Jackson, Biochemic Drug Assay Methods.

Professor CAREY.

Detailed outlines of the above courses are on file. Students are required to consult special reference works, public health reports, special bulletins and monographs which will be supplied. Each student will be required to present a full report on all samples examined and analyzed at the close of the year's work. He is also required to present at least one report of some special laboratory work representing independent research intended to indicate his ability as an efficient analyst in technical laboratories where work of a similar nature is done.

The minimum time required for the work as above outlined is ten hours each week, extending throughout the entire college year.

EPITOME OF COURSES WITH TIME AND UNIT VALUES

FIRST YEAR (32 WEEKS)

Chemistry.

2 hrs. lecture and recitation; 4 hrs. laboratory per week.

Tuesday, 8-12, Professor GREEN.

Thursday, 8-10, Professor GREEN.

Throughout the year. 4 units each half-year. Total hours, each half-year, 96.

Pharmacy.

4 hrs. lecture and recitation; 6 hrs. laboratory per week.

Wednesday, 8-12, Professor NISH and DR. SIMMONS.

Friday, 8-12, Professor NISH and DR. SIMMONS.

Saturday, 9-10, Professor NISH.

Saturday, 11-12, Professor NISH.

Throughout the year. 6 units each half year. Total hours, each half-year, 160.

Botany.

3 hrs. lecture and recitation; 2 hrs. laboratory per week.

Monday, 8-11, DR. CAREY.

Monday, 11-12. (To be announced.)

Saturday, 8-9, DR. CAREY.

Throughout the year. 4 units each half-year. Total hours, each half-year, 80.

Physiology.

1 hr. lecture and recitation per week.

Thursday, 11-12, DR. CAREY.

Throughout the year. 1 unit each half year. Total hours, each half-year, 16.

Materia Medica.

2 hrs. lecture and recitation per week.

Thursday, 10-11, DR. CAREY.

Saturday, 10-11, DR. SIMMONS.

Throughout the year. 2 units each half-year. Total hours, each half-year, 32.

SECOND YEAR (32 WEEKS)**Chemistry.**

2 hrs. lecture and recitation; 6 hrs. laboratory per week.

Monday, 8-12, Professor GREEN.

Wednesday, 8-12, Professor GREEN.

Throughout the year. 5 units each half-year. Total hours, each half-year, 128.

Pharmacy.

3 hrs. lecture and recitation; 3 hrs. laboratory per week.

Tuesday, 8-9, Professor NISH.

Thursday, 8-12, Professor NISH and DR. SIMMONS.

Saturday, 9-10, Professor NISH.

Saturday, 11-12, Professor NISH.

Throughout the year. 4 units each half year. Total hours, each half-year, 96.

Pharmacognosy.

1 hr. lecture; 4 hrs. laboratory per week.

Tuesday, 9-11, Professor CAREY.

Friday, 9-12, Professor CAREY.

Throughout the year. 3 units each half-year. Total hours, each half-year, 80.

Materia Medica.

3 hrs. lecture and recitation per week.

Friday, 8-9, DR. CAREY.

Saturday, 9-10, DR. CAREY.

Saturday, 11-12, DR. SIMMONS.

Throughout the year. 3 units each half-year. Total hours, each half-year, 48.

Bacteriology.

1 hr. lecture per week.

Tuesday, 11-12, Professor CAREY.

Throughout the year. 1 unit each half-year. Total hours, each half-year, 16.

Toxicology.

1 hr. lecture per week.

Saturday, 8-9, DR. SIMMONS.

First half year. 1 unit for course. Total hours, 16.

Pharmaceutical Jurisprudence.

1 hr. lecture per week.

Saturday, 8-9, MR. WILEY.

Second half year. 1 unit for course. Total hours, 16.

THIRD YEAR (32 WEEKS)

Chemistry.

8 hrs. laboratory with lectures and demonstrations per week.

Thursday, 8-12, Professor GREEN.

Friday, 8-12, Professor GREEN.

Throughout the year. 5 units each half-year. Total hours, each half-year, 128.

Pharmacy.

8 hrs. laboratory with lectures and demonstrations per week.

Monday, 8-12 Professor NISH.

Tuesday, 8-12, Professor NISH.

Throughout the year. 3 units each half-year. Total hours, each half-year, 128.

Bacteriology.

2 hrs. lecture and recitation; 2 hrs. laboratory per week.

Saturday, 8-12, Professor CAREY.

Throughout the year. 3 units each half-year. Total hours, each half-year, 64.

Micro-Analysis.

4 hrs. laboratory with lectures and demonstrations per week.

Wednesday, 8-12, Professor CAREY.

Throughout the year. 3 units each half-year. Total hours, each half-year, 64.

FOURTH YEAR (32 WEEKS)

Chemistry.

Professor GREEN.

Hours to be arranged.

5 units each half-year.

Pharmacy.

Professor NISH.

Hours to be arranged.

5 units each half-year.

Micro-Analysis.

Professor CAREY.

Hours to be arranged.

3 units each half-year.

Bacteriology.

Professor CAREY.

Hours to be arranged.

3 units each half-year.

Pharmacology.

Professor CAREY.

Hours to be arranged.

1 unit each half-year.

Hygiene.

Professor CAREY.

Hours to be arranged.

1 unit each half-year.

TEXT-BOOKS

FIRST YEAR

Botany (Kraemer)	\$5.50
Physiology (Jones and Stephens)	1.50
Microscopy (Schneider)	1.50
Manual of Chemistry (Simon)	3.50
Qualitative Chemical Analysis (Rockwood)	1.50
U. S. Pharmacopoeia	3.00 and up
National Formulary	2.50 and up
Pharmacy (Caspari)	4.75
Or Pharmacy (Remington's)	7.00
Organic Materia Medica (Culbreth)	5.25

SECOND YEAR

General Pharmacography (Schneider)	1.25
Toxicology (Brundage)	2.00
Organic Chemistry (Norris)	3.00
Organic Chemistry Experimental (Norris).....	1.50
Quantitative Analysis (Clowes and Coleman)	3.50
Materia Medica	2.50
Examination of the Urine (Saxe).....	1.50
Pharmaceutical and Medical Chemistry (Sadler and Coblenz).....	3.50
Or Medical Chemistry and Toxicology (Holland).....	3.00
Pharmaceutical Bacteriology (Schneider)	2.00
Incompatibilities in Prescriptions (Ruddiman)	

EXAMINATIONS

Periodical examinations are held orally each week, and in writing every two months, during the session, in each of the subjects taught by the professors, and the ratings received are recorded.

Attendance upon these examinations is compulsory.—Any student unavoidably absent is required to deliver to the professor a statement in writing of the cause of his absence, and to take a special examination of similar scope.

First-year Examination (for admission to the second-year class).—First-year students, whose rating shows satisfactory progress, receive certificates entitling them to admission to the second-year class at any subsequent session of the college within two years.

First-year students who fail in more than two subjects are required to repeat the course, for which full fees will be charged.

First-course students from other colleges of pharmacy, who desire to enter the senior class of this college, are required to produce evidence of their fitness, or to pass an examination.

Conditions and Their Removal.—Students who are conditioned in any subject must present themselves for examination in such subject between the opening of college and the end of the first semester of the succeeding term. Conditions in any laboratory work must be removed during the period mentioned above.

Second-year Examinations.—Students in the senior class are examined bi-monthly for the degree of Graduate in Pharmacy, and at the end of the session, in inorganic and organic chemistry, pharmacy, botany, materia medica, pharmacognosy, physiology, toxicology, translation of prescriptions, pharmaceutical jurisprudence, and identification.

Second-year students who take examinations at the close of the term and fail in one or two branches are required to pass satisfactory examinations in such branches during the next term; a fee will be charged for each branch taken. Those who fail in three or more branches will be required to repeat the entire course, for which full fees will be charged. If they attend college the ensuing session, they may present themselves for examination at the end of the first semester, and if their examination proves satisfactory, they will be recommended to the Board of Regents for graduation. If they do not attend college, they will not be examined until the close of the term. Those who fail to obtain the required percentage of credits for their work in any of the laboratories are required again to attend such laboratory or laboratories.

Those who are conditioned will be allowed to present themselves for examination again within two years without further charge, if they do not again attend the college; but if they attend the lectures, laboratories, or reviews, they will be required to pay for such courses of instruction as they receive. The amount of the fees charged for such additional attendance can be learned of the Secretary.

Certificates of Record.—Certificates of record will be issued to those students who have taken a partial examination and have passed in *all the branches* in which they were examined; also to special students who pass in their special subject. No certificate of record in pharmacy will be issued unless the student has passed in all the branches in which he was examined. No certificate of record in any subject will be issued unless the applicant shall have attained as high a percentage of credits in such subject as is required in that subject for graduation.

CONDITIONS FOR GRADUATION

FOR THE DEGREE OF GRADUATE IN PHARMACY (Ph.G.)

Every candidate for the degree Graduate in Pharmacy (Ph.G.) must fulfill the following conditions:

1. He must be of good moral character.
2. He must have attended two full courses in each of the departments of this college, or one course (the second year) in this, after a course (the first year), in some other recognized college of pharmacy.
3. He must have attended at least ninety per cent of the lectures, reviews and laboratory work in each department in each class, made all payments, taken all examinations, passed the same, and met the requirements of all departments.

**FOR THE DEGREE OF PHARMACEUTICAL CHEMIST (PH.C.) AND
BACHELOR OF PHARMACY (PHAR.B.)**

He must have an attendance of ninety per cent, have completed the prescribed work and have presented a thesis embodying original work done in one or more of the laboratories of this college.

Candidates are recommended jointly by the Faculty and Board of Directors of this college to the Regents of the University of California, by whom the degree is conferred.

FEEES

To be paid in advance.

First year	\$150.00
Second	150.00
Third	150.00
Fourth	150.00
Chemical Laboratory (when taken separately).....	50.00
Pharmaceutical Laboratory (when taken separately).....	50.00
Microscopical Laboratory (when taken separately).....	50.00
Lectures (when taken separately) each course.....	15.00

These fees become effective for all students matriculating in all classes after May 12, 1920.

Make all checks payable to CALIFORNIA COLLEGE OF PHARMACY.

All fees, laboratory charges, materials, use of apparatus are included in the total payment of \$150.00. This includes \$3.00 credited to the student or retained by the college to the amount of breakage, damage, wear and tear. Where the student has already drawn upon this balance at the end of the first half-year, a second deposit of five dollars (\$5) will be required.

All fees are due in advance; no part of tuition fee is returnable, but the Secretary may, in his discretion, accept one-half at the opening of the term, in which case the balance will be required to be paid not later than December 15.

All financial obligations to the College must be paid periodically and before the final examinations are taken.

Students who do not intend to pursue pharmacy as a vocation are admitted to any of the courses they may desire to attend by paying the fee of the chair or chairs of instruction which they wish to take.

The College reserves the right to modify, change, alter, eliminate, or omit any course of study or parts herein set out, and to regulate, modify, or change the stated charges in due proportion.

GRADUATING CLASS, 1920**GRADUATES IN PHARMACY**

Orson Howe Adams.....	Etna Mills
Joseph Balemi.....	Santa Rosa
Roy Borgstrom.....	Oakland
Arthur Joseph Brannagan.....	San Francisco
Lafayette Ernest Burns.....	Auburn
George Leo Buttgenbach.....	San Francisco
Charles Joseph Caramella.....	San Jose
Elsie Isabelle Christensen.....	San Diego
Elmer George Conn.....	Richmond
Mark Lyle Douglas.....	East Auburn
Margaret Eckhoff.....	San Francisco
James Hubert Farrell.....	San Francisco
Harry Lewis Fletcher.....	San Francisco
John Francis Galvin.....	San Francisco
Hubert Raymond Gaskins.....	Oroville
Ida Lillian Gresham.....	Boise, Idaho
Shonosuke Ishikawa.....	San Francisco
Helen King.....	Menlo Park
Rudolphus Clay Knowlton.....	San Francisco
Josephine Lampert.....	Oakland
Edward Walter Levy.....	San Francisco
Cedric Andrew McClure.....	Red Bluff
Edward George Mahoney.....	Berkeley
Jacob Massion.....	Chugwater, Wyoming
Francis Earl Mixer.....	Exeter
Helen Gushaw Mudgett.....	Fortuna
Gustaf Adolf Ross.....	San Francisco
Benjamin Lawrence Schroeder.....	San Francisco
Ewell Fullerton Scott.....	Selma
Paul Reginald Sutton.....	Maxwell
Samuel Miller Dold Terrill.....	San Francisco
Percy Marlin Vernon.....	Berkeley
Cairns Howard Vogelman.....	Modesto
James Herbert Walker.....	San Jose
Kay Kinkichi Watanabe.....	Sacramento
Clara Wells.....	Red Bluff
Norma Chipman Wells.....	Red Bluff
Clarence Donald Whitaker.....	San Rafael
Grace Wigg.....	Wrangell, Alaska

PHARMACEUTICAL CHEMISTS**The Degree of Pharmaceutical Chemist upon**

Sawaji Misawa.....	Japan
Leonard Scott Whitmore.....	San Mateo

STUDENTS 1919-1920

NOTE.—All addresses in the following list are in San Francisco unless stated to be elsewhere. B, Berkeley; O, Oakland; A, Alameda.

Adams, Orson Howe	Etna Mills	Fithian, Nelson Edward	Red Bluff
2nd yr—1114 Pine st		1st yr—850 Fifty-fifth st, O	Pied 3342
Abraham, Paul Martin	Fresno	Fletcher, Harry Lewis	San Francisco
1st yr—826 Clayton st	Park 3693	2nd yr—875 Frederick st	Park 8835
Avenell, Charles P.	Fresno	Galvin, John Francis	San Francisco
1st yr—Twenty-fourth av	Snst 3651	2nd yr—49 Guerrero st	
Balemi, Joseph	Santa Rosa	Gaskins, Hubert Raymond	Oroville
2nd yr—900 Ashbury st	Mrkt 4281	2nd yr—900 Ashbury st	Mrkt 4281
Bascherini, John Omero	Sacramento	Gazis, Gregory Nicolas	Leucas, Greece
1st yr—509 Columbus av	Sutr 8632	1st yr—1449 Post st	
Betines, William Joseph	Shanghai, China	Glick, David Putnam	Los Angeles
1st yr—1859 Post st		1st yr—1241 Willard st	Park 896
Biane, Henry Percy Claude	Visalia	Glover, George Walter	Richmond
1st yr—900 Ashbury st	Mrkt 4281	1st yr—Richmond	
Bigelow, Lorena Frances	Berkeley	Greaver, James Clarence	Eldridge
1st yr—1835 Delaware st, B	Bkly 3404J	1st yr—900 Ashbury st	Mrkt 4281
Borgstrom, Lee Edward	Oakland	Green, Roswald Andrew	Bishop
1st yr—Home Club Park blvd, O	Mer 6	1st yr—2396 Pacific av	Flmr 1918
Borgstrom, Roy	Oakland	Gresham, Ida Lillian	Boise, Idaho
2nd yr—Home Club Park blvd, O	Mer 6	2nd yr—557 Belvedere st	
Brannagan, Arthur Joseph	San Francisco	Hall, Archibald Greiersen	Watsonville
2nd yr—3688 Twentieth st	Park 5622	1st yr—1218 Fourth av	
Burns, Lafayette Ernest	Auburn	Hall, Minor Winston	
2nd yr—1959 Pine st	West 1293		Richland Springs, Texas
Buttgenbach, George Lee	San Francisco	1st yr—920 Magnolia st, O	
2nd yr—354 Euclid av	Pac 6368	Hansen, Katherine Margaret	Crescent City
Caesar, George William	San Francisco	1st yr—126 Fifth av	
1st yr—2725 Jackson st		Heise, John Diedrich, Jr.	San Francisco
Cama, John Joseph	Archibald, Pa.	1st yr—Franklin Hospital	Park 349
1st yr—26 Jensen st		Hilbert, George Fred	Paso Robles
Caramella, Charles Joseph	San Jose	1st yr—900 Ashbury st	Mrkt 4281
2nd yr—1398 California st		Howe, Junior James Edward	San Francisco
Childs, Benjamin Wheaton	Santa Ynez	1st yr—1251 Willard st	Park 1425
1st yr—220 Golden Gate av		Hughes, Francis Bernard	San Francisco
Christensen, Elsie Isabelle	San Diego	2nd yr—30 Carl st	Mrkt 9531
2nd yr—1680 Fell st	West 8923	Irvine, Robert Julian	Sacramento
Cianciolo, Anthony Joseph	San Francisco	1st yr—1902 Ninth av	Snst 1839
1st yr—2362 Pine st		Ishikawa, Alfred Shonosuke	San Francisco
Conn, Elmer George	Richmond	2nd yr—1865 Pine st	
2nd yr—210 Martina st, R	Rehd 493W	Kenney, Gladys Margaret	Petaluma
Corsiglia, Charles Mavio	San Jose	1st yr—540 Twenty-sixth av	
1st yr—2407 Mission st			Bay View 838
Crabtree, Lelia Gertrude	Knights Ferry	King, Helen, P. O. Box 1220	Menlo Park
1st yr—600 Ashbury st		2nd yr—Route 1	
Cuthbertson, Frederic Charles	San Francisco	Knowlton, Rudolphus Clay	San Francisco
2nd yr—2255 Market st		2nd yr—900 Ashbury st	Mrkt 4281
Earhart, Charles Keith	Montague	Lampert, Josephine	Oakland
1st yr—900 Ashbury st	Mrkt 4281	2nd yr—1060 Eighteenth st, O	Lkad 144
Eckhoff, Margaret	San Francisco	Lang, Bayard Bryan	Richmond
2nd yr—18 Ramona st		1st yr—600 McDonald av, R	Rehd 749
Farrell, James Hubert	San Francisco	Latapie, Ernest Jules	Oakland
2nd yr—283 Guerrero st	Mrkt 6037	1st yr—1579 Sixty-third st, O	Pied 3585W

Levy, Edward Walter	San Francisco	Scott, Ewell Fullerton	Selma
2nd yr-680 Fifth av	Pac 1404	2nd yr-1959 Pine st	West 1293
Lille, Henri Homera	San Francisco	Shatto, Dewey Pfister	San Jose
1st yr-3812 Steiner st		1st yr-900 Ashbury st	Mrkt 4281
Mahoney, Edward George	Berkeley	Silva, Alphonse Frank	Centerville
2nd yr-2009 Hearst av, B		1st yr-900 Ashbury st	Mrkt 4281
Maloney, William Peter	San Francisco	Smith, Harry Francis	Fullerton
1st yr-3864 Twenty-first st.	Man 7406	1st yr-525 O'Farrell st	Frkn 3464
Massion, Jacob	Chugwater, Wyo.	Sneed, Maybelle Eather	Richmond
2nd yr-1668 O'Farrell st		1st yr-338 Macdonald av, R	Rchd 500
Meddaugh, George Wallace	Lakeport	Somerset, Robert Clinton	Albany
1st yr-1709 Tenth st, B		1st yr-524 Stannage av, Albany	Bkly 2967J
Melmon, Abraham Irving	San Francisco	Spurgeon, Ellis Lawrence	San Francisco
1st yr-1622 Eddy st	Flmr 1677	1st yr-1368 Seventh av	
Mino, George Francis	Richmond	Sutton, Paul Reginald	Maxwell
1st yr-1045 Montgomery st		2nd yr-1114 Pine st	Pcpt 4816
Mixer, Francis Earl	Exeter	Swansen, Ole Andreas	San Francisco
2nd yr-900 Ashbury st	Mrkt 4281	1st yr-169, Noe st	Mrkt 8875
Momboisse, Raymond John	Baptist	Swim, Joseph Benjamin	San Francisco
1st yr-900 Ashbury st	Petaluma	1st yr-1601 Haight st	
Moore, Elizabeth Lucinda	Berkeley	Takao, Hede	San Francisco
1st yr-2012 Hearst av, B	Bkly 5120	1st yr-758 Stockton st	Krny 2476
Mudgett, Helen Gushaw	Fortuna	Terrill, Samuel Miller Dold	San Francisco
2nd yr-1261 Broderick st	West 3431	2nd yr-25 Judah st	Snst 2448
McClure, Cedric Andrew	Red Bluff	Thomas, Marie	Petaluma
2nd yr-1959 Pine st	West 1293	1st yr-1560 Union st	Frkn 9036
McKenna, William Morton	San Francisco	Thomas, Vivian Loraine	San Francisco
1st yr-747 Baker st		1st yr-172A Belvedere st	
Oliver, Dwight	Oakland	Treanor, Bert C.	Richmond
1st yr-554 Sixty-third st, O	Pied 3727J	1st yr-600 McDonald av, R	
Overman, Marion Owen	Oakland	Verdi, Joseph Frederick	Berkeley
1st yr-733 Sixty-fifth st, O	Pied 2603W	1st yr-1145 Oxford st, B	
Page, Wallace Dimmick	Berkeley	Vernon, Percy Marlin	Berkeley
1st yr-1422 Bonita av, B	Bkly 6890W	2nd yr-2900 Russell st, B	
Pampel, Harold Kenneth	Lodi	Vogelman, Cairns Howard	Modesto
1st yr-900 Ashbury st	Mrkt 4281	2nd yr-900 Ashbury st	Mrkt 4281
Perry, Claymond August	Pleasanton	Walker, James Herbert	San Jose
1st yr-900 Ashbury st	Mrkt 4281	2nd yr-277A Downey st	
Reed, Paul Hope	San Mateo	Watanabe, Kay Kinkichi	Sacramento
1st yr-30 Eleventh av, S M		2nd yr-1856 Sutter st	Flmr 4977
Reynolds, Bernice	Alturas	Ward, William Francis	San Francisco
1st yr-600 Ashbury st	Park 5626	2nd yr-2573 Post st	West 8320
Ross, Gustaf Adolf	San Francisco	Wells, Clara	Red Bluff
2nd yr-16 Whitney st		2nd yr-1300 Page st	Park 4019
Rowe, Oliver Cecil	Sacramento	Wells, Norma Chipman	Red Bluff
1st yr-1920 Ninth av	Snst 1839	2nd yr-1300 Page st	Park 4019
Sartori, Horace Joseph	San Francisco	Whitaker, Clarence Donald	San Rafael
1st yr-156 Beulah st	Park 3084	2nd yr-126 Hugo st	
Schoningh, Joseph Henry	Petaluma	White, Millar Joseph Clarke	
1st yr-900 Ashbury st	Mrkt 4281	1st yr-3009 Telegraph av, B	Bkly 5709J
Schoenigh, Theodore James	Petaluma	Wigg, Grace	Wrangell, Alaska
1st yr-900 Ashbury st	Mrkt 4281	2nd yr-1911 Page st	
Schroeder, Benjamin Lawrence	San Francisco	York, Loren Vear	Ukiah
2nd yr-1278 Tenth av	Snst 1266	1st yr-2612 Howard st	

ALUMNI ASSOCIATION OF THE CALIFORNIA COLLEGE OF PHARMACY

OFFICERS

President	MISS DEVOTA FISHER
First Vice-President.....	DR. J. H. H. SCUDDER
Second Vice-President	S. M. D. TERRILL
Registrar	Mrs. F. H. PHILIP
Treasurer	CHARLES J. ABRAHAM
Secretary.....	PAULINE J. DUNDAS, 3783 Twentieth St., San Francisco

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Miss D. FISHER
C. S. BALLAGH
W. BRUCE PHILIP
H. HARMON
PAULINE J. DUNDAS

The Alumni Association was organized in 1882. Its purpose is to advance the interests of the college, to bring its graduates into closer fellowship with each other, and to promote sociability and good feeling among them; to advance the science and art of pharmacy, to encourage and assist undergraduates, and to keep a record of the pharmaceutical work and services of its members.

This association holds meetings for scientific discussion and for social purposes; also an annual meeting at the end of each college year for the election of officers, etc., and an annual banquet given to the graduating class.

Graduates of the California College of Pharmacy are eligible to membership.

Alumni Lectures.—During the term a member of this association, or a lecturer chosen, will deliver to the senior class, lectures on the commercial side of pharmacy and kindred subjects.

HONOR ROLL

The following students and graduates are or were in the Military Service of the United States Government:

Abreu, J. L., '17.	Honle, 2nd Lieut. E. E., '17.	Pickering, W. A., '16.
¹ Adamsen, A. C., '18.	Hitchcock, T., '12.	Pirie, J. W., '16.
Aguirre, A. M., '13.	Hudson, C. V., '14.	Piuma, J. A., '18.
Austin, G. A., '18.	Hunter, L. C., '16.	Poppe, R. G., '13.
Asselin, Geo., '14.	Huber, J., '14.	Pruess, E. C., '17.
Asselin, Homer, '17.	Ingelath, O., '13.	Purdy, C. F., '16.
Bagley, R. O., '14.	Johnson, G. W., '17.	Reis, C., '17.
Bailley, O. C., '18.	Juilly, M. E., '16.	Reeseigh, John, '13.
Beerman, Capt. W. F., '98, M.D., '01.	Knowlton, R. C., '18.	Reynolds, O. W., '18.
Bravin, R. R., '17.	Koch, H. W., '14.	Richards, H., '16.
Buffington, M., '18.	Kronberger, A. M., '14.	Ring, M., '17.
Cartwright, Capt. S. W., '00, M.D., '08.	Larnia, Lieut. E. A., '10.	Roche, Capt., '92, Dr. T. B., '98.
Cassel, S., '15.	Laughlin, C., '13.	Robinson, F., '15.
Cipperly, E. M., '17.	Lawhead, F. S., '12.	Roger, J. H. D., '11.
² Carey, H. B., M.D.	Legge, Capt. Robert T., '91, M.D., '99.	Rogers, H. L., '17.
Cogswell, F. L., '92.	Lengfiet, L., '14.	Rooney, H. B., '13.
Cox, Everett, '18.	Levison, Col. Chas. G., '84, M.D.	Roper, 2nd Lieut. F. R., '18.
Davis, C. G., '17.	Lewin, E. M., '13.	Schaffer, M. L., '16.
Davison, A., '14.	Lewin, G. H., '14.	Scott, E., '19.
Davison, Wm., '14.	Lewis, Chester, '16.	Scudder, '05.
Deacon, A. M., '18.	Lewek, A. J., '12.	Sedgley, 2nd Lieut. W. F., '14.
Deragisch, H. J., '11.	MacLean, A., '15.	Seid, E. E., '17.
Dorant, C., '14.	Madsen, F. A., '12.	² Simmons, H. M., '95, M.D., '01.
Douglas, M. L., '18.	Mahoney, F., '19.	² Simmons, J. G., '14.
Dowdall, Maj. R. J., '14.	Martin, W. H., '14.	Spellman, J. J., '18.
Duffy, Milton P., '14.	McCumber, 2nd Lieut. L. L., '17.	Soleim, J. B., '19.
Eddy, C. L., '12.	McGowan, F. L., '15.	Stringfield, H., '14.
Eggers, C., '11.	Meece, A. H., '10.	Swanson, H. W., '14.
Elliott, C., '02.	Miller, R. E., '14.	Terry, R. W., '18.
Fahey, E. T., '16.	Mishkind, H. I., '17.	Thurman, L. G., '16.
Fairchild, L., '19.	Moltzen, 2nd Lieut. E. J., '17.	Tice, W. E., '12.
Fletcher, H. L., '19.	Moody, F. C., '17.	Tippett, G. W., '15.
Gaffney, G. G., '15.	Moody, W. M., '17.	Trewatha, O., '15.
Garlicks, 2nd Lieut. O. L., '18.	Morris, F. F., '16.	Trueting, E. C., '16.
Gaskins, H. R., '18.	Nason, I. L., '14.	Tuttle, O. R., '18.
Gibson, F. L., '18.	Nicholson, C. A., '18.	Upham, L. A., '17.
Giro, H. S., '19.	Norwood, E., '10.	Vellguth, C. W. E., '11.
Godard, W. A., '19.	O'Brien, F., '13.	Ventuleth, F. F., '14.
Greaver, C. J., '17.	Palmatier, H. N., '16.	Vogelman, C. H., '18.
Grigge, C. E., '18.	Parker, C. A., '18.	Walker, J. H., '18.
Grove, S. D., '12.	Parks, J. L., '16.	William, G. V., '18.
Guedet, F. J., '08.	Pate, W. H., '17.	Willis, A. J., '15.
Guerra, F. F., '18.	³ Patterson, J. N., '10.	Wise, R. L., '16.
Guinn, N. C., '17.	Pennington, O. B., '12.	Wyckoff, E., '17.
Harria, R., '16.	Petersen, A. J., '18.	
Haselhurst, R., '15.		
Hawkins, O. F., '17.		

¹In the British service.

²Active service at home

³Member of the faculty.

The date signifies the graduating year.

The Dean will appreciate notification of errors or omissions in the above Honor Roll.

REGISTER—PART XIII

COLLEGE OF DENTISTRY

ANNOUNCEMENT FOR 1920-21

JUNE, 1920

UNIVERSITY OF CALIFORNIA
COLLEGE OF DENTISTRY
PARNASSUS AVENUE AND ARGUELLO BOULEVARD
SAN FRANCISCO

ANNOUNCEMENT
FOR
1920-1921

(THIRTY-NINTH SESSION)

UNIVERSITY OF CALIFORNIA PRESS
BERKELEY

ANNOUNCEMENT, 1920-21

N. B.—Those who wish to receive information regarding the matriculation requirements and an announcement are requested to forward their names and addresses to the Recorder of the Faculties, University of California, Berkeley, California.

Those who wish to receive information regarding advanced standing and the curriculum of the College of Dentistry are requested to forward their names and addresses to the Dean, College of Dentistry, Parnassus avenue and Arguello boulevard, San Francisco, California.

REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

REGENTS EX OFFICIO

HIS EXCELLENCY WILLIAM D. STEPHENS
Governor of California and President of
the Regents
Sacramento

CLEMENT CALHOUN YOUNG, B.L.
Lieutenant-Governor of California
Sacramento (276 Post st, San Francisco)

HENRY W. WRIGHT
Speaker of the Assembly
1009 Fair Oaks av, South Pasadena

WILL C. WOOD
State Superintendent of Public Instruction
Sacramento

GEORGE C. ROEDING
President of the State Agricultural
Society
Roeding Place, Fresno

BYRON MAURY
President of the Mechanics' Institute
250 Stockton st, San Francisco

WARREN GREGORY, A.B., LL.B.
President of the Alumni Association
Merchants Exchange bldg, San Francisco

DAVID PRESCOTT BARROWS, Ph.D., LL.D.
President of the University
217 California Hall, Berkeley

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the Board.

ARTHUR WILLIAM FOSTER, (1932)
Southern Pacific bldg, San Francisco

GARRETT WILLIAM McENERNEY (1936)
2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG (1932)
1521 Van Ness av, San Francisco

GUY CHAFFE EARL, A.B. (1934)
14 Sansome st, San Francisco

JOHN ALEXANDER BRITTON (1930)
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1922)
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A.,
S.T.B. (1928)
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)
637 Wilton pl, Los Angeles

JAMES MILLS (1926)
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1936)
Fresno

MORTIMER FLEISHHACKER (1934)
Anglo-California Trust Compy, San
Francisco

GEORGE I. COCHRAN, LL.D. (1930)
501 West Sixth st, Los Angeles

MRS. MARGARET SARTORI (1922)
725 West Twenty-eighth st, Los Angeles

OFFICERS OF THE REGENTS

His Excellency William Dennison Stephens
President
Sacramento

Mortimer Fleishhacker,
Treasurer
Anglo-California Trust Company, San
Francisco

Comptroller, Secretary of Regents, and
Land Agent
220 California Hall, Berkeley

James M. Mannon, Jr., LL.B.
Attorney
1107 Merchants Exchange bldg, San
Francisco

Robert Gordon Sproul, B.S.
Assistant Comptroller, Assistant Sec-
retary, and Assistant Land Agent
220 California Hall, Berkeley

STANDING COMMITTEES OF THE BOARD OF REGENTS FOR THE YEAR 1920-21*

Agriculture:

Regents Foster, Roeding, Dickson, Mills,
Cochran, and Taussig.

Committee on Conference with Faculty:

Regents Moffitt, Gregory, Britton,
Taussig, Rowell, and Ramm.

Endowments:

Regents Crocker, Britton, Mrs. Sar-
tori, Bowles, Cochran, McEnerney,
and Fleishhacker.

Engineering:

Regents Ramm, Fleishhacker, Britton,
Roeding, and Bowles.

Executive Committee:

This committee consists of the chairmen
of all standing committees and the
President of the Alumni Association.

Finance:

Regents Earl, Foster, Britton, Moffitt,
and Taussig.

Grounds and Buildings:

Regents Britton, Wheeler, Bowles,
Dickson, and Fleishhacker.

Jurisprudence:

Regents McEnerney, Cochran, Wheeler,
Gregory, and Young.

Letters and Science:

Regents Rowell, Wheeler, Ramm, Wood,
Gregory, and Mills.

Library Research and Publications:

Regents Bowles, Moffitt, Mausy, Gregory,
Wood, Earl, and Rowell.

Lick Observatory:

Regents Fleishhacker, McEnerney,
Young, Crocker, Mausy, and Wright.

Medical Instruction and University

Hospitals:

Regents Crocker, Taussig, Britton,
Earl, Moffitt, Ramm, Mrs. Sartori,
and Bowles.

Southern Branch of the University of California and Scripps Institution for Biological Research:

Regents Dickson, Cochran, Gregory,
Mrs. Sartori, Wood, Rowell, and
Taussig.

Wulmerding School:

Regents Taussig, Earl, Moffitt, and
Mausy.

*The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

THE UNIVERSITY

THE UNIVERSITY COMPRISES THE FOLLOWING COLLEGES AND DEPARTMENTS

I. IN BERKELEY

The Colleges of

Letters and Science,
Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, and the United States Agricultural Experiment Station, which includes stations at Berkeley and Davis, the forestry stations at Chico and Santa Monica, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, "Whitaker's Forest" in Tulare County, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County),

Mechanics,
Mining,
Civil Engineering,
Chemistry.

The Schools of

Architecture,
Education,
Jurisprudence,
Medicine (first and second years).

The University Extension Division (offering instruction wherever classes can be formed, or anywhere in California by correspondence, providing lectures, recitals, motion pictures, and other material for visual instruction, etc., giving guidance and suggestions to debating clubs, and offering aid to communities through its Bureau of Information and Social Welfare).

The California Museum of Vertebrate Zoology.

DEPARTMENTS OF INSTRUCTION IN THE COLLEGES AT BERKELEY

Agriculture (including Agricultural Science, Agronomy, Animal Industries, Forestry, Horticulture, and Landscape Gardening), Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Economics,

Education, English, French, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Italian, Jurisprudence, Latin, Library Science, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Sanskrit, Semitic Languages, Slavic Languages, Spanish, Zoology.

II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).

III. AT SANTIAGO, CHILE

The D. O. Mills Observatory, a branch of the Lick Observatory.

IV. IN SAN FRANCISCO

California School of Fine Arts,
Hastings College of the Law,
Medical School (third, fourth, and fifth years, including Hospitals),
The George Williams Hooper Foundation for Medical Research,
College of Dentistry,
California College of Pharmacy,
The Museum of Anthropology, Archaeology, and Art.

V. IN LOS ANGELES

Los Angeles Medical Department, graduate instruction only.
Southern Branch of the University.

VI. AT DAVIS

The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils, and Veterinary Science.

VII. AT RIVERSIDE

The Graduate School of Tropical Agriculture.

VIII. AT LA JOLLA

The Scripps Institution for Biological Research.

IX. AT SWANTON

The Summer School of Surveing.

COLLEGE OF DENTISTRY

FACULTY

DAVID PRESCOTT BARROWS, Ph.D., LL.D., President of the University and *ex officio* President of the Faculty.

GUY STILLMAN MILLBERRY, D.D.S., Professor of Chemistry and Metallurgy, and Dean.

JAMES GRAHAM SHARP, M.D., D.D.S., Professor of the Principles and practice of Surgery.

WILLIAM FULLER SHARP, D.D.S., D.M.D., Professor of Clinical Prosthodontia.

JOSEPH DUPUY HODGEN, D.D.S., Professor of Histology and Dental Pathology, Emeritus.

GEORGE LUSK BEAN, D.D.S., Clinical Professor of Operative Dentistry and Dental Porcelain.

ALLEN HOLMAN SUGGETT, B.S., D.D.S., Professor of Orthodontics.

EDWIN HENRY MAUK, D.D.S., Professor of Prosthetic Dentistry.

GLANVILLE Y. RUSK, A.B., M.D., Associate Professor of Pathology.

M. THAYER RHODES, D.D.S., Assistant Clinical Professor of Operative Dentistry.

JOHN ALBERT MARSHALL, D.D.S., Ph.D., Associate Professor of Biochemistry and Dental Pathology.

FRANCIS VANCE SIMONTON, D.D.S., Associate Professor of Operative Dentistry.

HENRY BENJAMIN CAREY, B.S., M.D., Assistant Professor of Anatomy, Materia Medica, and Therapeutics.

INSTRUCTORS, DEMONSTRATORS, LECTURERS, ASSISTANTS†

H. H. ALVAREZ, D.D.S., Instructor in Extracting.

LOUIS BARTLETT, Ph.B., LL.B., Lecturer in Dental Jurisprudence.

FRANK CABUL BETTENCOURT, D.D.S., Clinical Instructor in Prosthetic Dentistry.

MARY W. BROYLES, Instructor in Nursing and Superintendent of Dental Hygienists.

HAROLD JOHN BRUHNS, D.D.S., Clinical Instructor in Operative Dentistry.

JOHN LOCKHART CAMPBELL, D.D.S., Instructor in Operative Dentistry.

ALLISON MILLS CHURCH, D.D.S., Clinical Instructor in Operative Dentistry.

THORNTON CRAIG, D.D.S., Clinical Instructor in Operative Dentistry.

HENRY OTTO EGGERT, D.D.S., Clinical Instructor in Operative Dentistry.

FRANCIS WAYLAND EPLEY, B.S., D.D.S., Instructor in Radiography and Orthodontics.

† Arranged alphabetically.

- CLARK R. GILES, D.D.S., Instructor in Prosthetic Dentistry.
MALCOLM GODDARD, D.D.S., Instructor in Comparative Odontology.
B. FRANK GRAY, D.D.S., Instructor in Orthodontic Technic.
JOHN EDWIN GURLEY, D.D.S., Instructor in Inorganic Chemistry.
OLIVER AMBROSE HABERDIER, D.D.S., Clinical Instructor in Prosthetic Dentistry.
WILLIAM HENRY HANFORD, D.D.S., Instructor in Extracting and Prophylaxis.
FRED OTTO HOEDT, D.D.S., Clinical Instructor in Operative Dentistry.
CHESTER WILLIAM JOHNSON, D.D.S., Instructor in Operative Dentistry.
ROBERT EDGAR KEYS, D.D.S., Librarian.
WALER HAZELWOOD LOWELL, D.D.S., Clinical Instructor in Operative Dentistry.
LEON W. MARSHALL, D.D.S., Instructor in Crown and Bridge Work.
HENLEY C. MILLER, D.D.S., Instructor in Surgery, Visiting Dental Surgeon U. C. service at San Francisco Hospital.
HERBERT TURBITT MOORE, B.S., D.D.S., Lecturer in Surgery.
CHARLES BERNARD MUSANTE, D.D.S., Clinical Instructor in Operative Dentistry.
ARTHUR H. NOBBS, B.A., D.D.S., Chief Instructor in Clinical Dentistry.
FRANKLIN EUGENE PERHAM, Instructor in English.
HARRIS E. RIDENOUR, D.D.S., Instructor in Prosthetic Dentistry.
ALFRED CURRIE RULOFSON, D.D.S., Instructor in Anaesthesia.
LEO SCHUCHARD, D.D.S., Instructor in Extracting.
ALLEN EVERETT SCOTT, D.D.S., Clinical Instructor in Orthodontics.
SAXON BIRD SCOTT, D.D.S., Instructor in Dental Porcelain.
GEORGE W. SIMONTON, D.D.S., Instructor in Physiology.
EDGAR WRIGHT SNELL, D.D.S., Clinical Instructor in Operative Dentistry.
JACOB FREDERICK STEFFAN, D.D.S., Clinical Instructor in Operative Dentistry.
THOMAS RALPH SWEET, D.D.S., Instructor in Orthodontics.
SHERMAN ALOYSIUS WHITE, D.D.S., Clinical Instructor in Operative Dentistry.
WILLIAM CARL WRIGHT, D.D.S., Instructor in Dental Porcelain.

HISTORY

In compliance with a recommendation from the Medical Faculty of the University, submitted May 28, 1881, the Regents, by an Act of September 7, 1881, organized the College of Dentistry as an integral part of the University of California.

The college was originally given accommodations in the Medical Hall of the University, and through the generous offer of the Medical Faculty provision was made for lecture and clinic room. From 1891 to 1906 it occupied quarters in the Donohue Building, at the corner of Market and Taylor streets, San Francisco, where the infirmary was located until 1906. In 1906 the infirmary was removed to the college building on Parnassus avenue and Arguello boulevard, where all the departments of the college are now conducted.

The progress of dentistry in recent times has given it rank among the liberal professions, and the permanent establishment of the College of Dentistry provides, at the least expense to candidates, the needed preparation for the responsibilities of its practice.

LOCATION AND EQUIPMENT

The College of Dentistry occupies the most eastern of the five professional college buildings situated on Parnassus avenue and Arguello boulevard, San Francisco, California.

Since the College of Dentistry has been located in its present building there has been a slow and steady growth in student enrollment. This is attributed to the ever increasing demand for good dental service on the part of the laity, and the high educational standards of the University. In February, 1916, the Regents of the University advanced \$30,000 to the College of Dentistry to provide additional infirmary and laboratory space and new equipment.

In the main, very slight modifications of the present building have been made to provide better teaching facilities; the principal changes include a three-story addition to house a new type of individual equipment. Contrary to the custom adopted in many leading dental schools, the College of Dentistry of the University of California endeavors to teach in a practical way methods of office practice, so that the graduate will be equipped with such practical knowledge as will enable him to conduct an office practice successfully should he choose to establish himself immediately after graduation.

The practical instruction, which includes making examinations of the mouths of patients, arranging for appointments, collecting fees, and keeping the professional and financial records, as well as performing the

operations necessary to putting the oral cavity in good condition, is supplemented by didactic instruction in this subject during the third year.

Pursuant to this plan a new type of equipment has been purchased with the view of individualizing the student's activities. The S. S. White Unit with electric motors is supplied, rather than the former type of fountain cuspidor and the foot engine. Individual operating cabinets designed especially for this school, large enough to contain all operating equipment and accessories and providing full working table space, are used instead of instrument cases and stands. The student is thus provided with the facilities for all operative work in a given location without being obliged to distribute his equipment in different parts of the building for safe keeping. Unquestionably this policy will enable the student to use his time to greater advantage.

Similarly the prosthetic laboratory is equipped with individual types of laboratory benches to facilitate laboratory work as well as to provide ample space for prosthetic equipment and a means of efficiently and securely storing it in the briefest time possible. Both the operating cabinets and the laboratory benches are designed after the types used in dental offices today; thus the student becomes familiar with office equipment before graduation.

Forty new units, modern dental chairs, and operating cabinets have been added to the present infirmary equipment, which will provide ample teaching facilities for some time to come. The installation of this equipment means a saving of approximately \$50 to each student; in order to keep this equipment in good order, a rental and depreciation fee of \$5 will be charged to each student.

The facilities for teaching prosthetic dentistry and dental porcelain have been materially improved, providing better equipment and light in both the laboratories and infirmary.

In the departments of oral surgery and dental pathology, in addition to the well equipped extracting and radiographic rooms, there has been provided a research laboratory for investigating the general problems presented in these two important departments.

Radiography and photography, including motion pictures, of special value in all teaching, are being developed to meet the demands made upon these special fields of science by all the departments.

Clinical practice in orthodontics is required so that the student may learn to observe personally the results of this practice. Local anesthesia in all its phases, including conductive and infiltrative, is likewise required. In fact, each department demands that clinical work of a satisfactory character shall be expected of each student qualifying for a degree.

Clinical material of every variety is abundant, the school being unable to care for all the cases that present themselves for treatment, and this affords ample opportunity for student practice in all branches of dentistry.

Students must provide themselves with white dental operating smocks of an approved type before being permitted to operate in the infirmary, and with duck or linen dusters for laboratory use.

ADMISSION

The requirements for admission to the College of Dentistry are identical with the requirements for admission to the academic departments of the University. Intending students of dentistry are advised to include in their high school programmes one year of physics, one year of chemistry, one year of zoology, and manual training.

ADMISSION FROM ACCREDITED SCHOOLS IN CALIFORNIA

A graduate of a California high school may enter the University of California without examination provided the following requirements be satisfied:

1. The school must have been accredited by the University of California.
2. The applicant must have completed a four-year high school course, aggregating at least 15 standard units of preparatory work (the equivalent of 45 units by the scale heretofore used), and he must be duly certified as a graduate of the school.
3. The candidate must be recommended for admission to the University of California according to the following form:

I certify that.....was graduated from the
..... School,, 19....., after an
attendance at said school of not less than one school-year* immediately
preceding graduation. I believe that the candidate is fitted to undertake
college work, with reasonable prospect of success, for the following
reasons: (1) that he (or she) possesses, in my judgment, the needful
ability, character, and seriousness of purpose; and (2) that he (or she)
has completed with a satisfactory scholarship record the preparatory
subjects listed below: (list of subjects follows).

(Signed).....

Principal of High School.

* If, however, candidate has completed all of his high school work in accredited institutions, and if the principals of these several schools unite in recommending him, the usual requirement that the candidate must have spent his senior year in the school from which he is graduated may be set aside.

In recommending graduates for admission to the University, the principals of accredited schools should use Recommendation Form A, with application for admission attached. Copies of this form are supplied by the University to the principals of all accredited schools in California.

The accrediting of a secondary school is regulated by an order of the Regents of the University passed March 4, 1884, and amended September 10, 1895, and January 10, 1905. Principals' applications for the accrediting of their schools must be in the hands of the Recorder of the Faculties at Berkeley on or before the first day of December of each school year.

The list of accredited schools is published by the University annually, in the month of June or July. Blank forms of application for accrediting, and lists of accredited schools, may be obtained from the Recorder of the Faculties.

Caution.—Candidates recommended in accordance with the foregoing provisions are admitted to the University and enrolled in the curricula of their choice. It will be seen, however, that some of these curricula cannot be completed in the University in the normal period (four years for the degree A.B. or B.S.) unless the candidate during his high school course has completed such specific prerequisites as may underlie the University work. A list of the curricula, with a statement of the preparatory work required and recommended, is given hereunder.

ADMISSION FROM APPROVED HIGH SCHOOLS IN OTHER STATES

Applicants from secondary schools outside of California are required to meet the same standards as applicants who enter from secondary schools in California. The committee in charge of admissions must have evidence of the following facts: that the school has an approved standing at universities or colleges of acknowledged rank; that the applicant has been graduated from a four-year course of not less than fifteen standard secondary units; and that the applicant has maintained an average scholarship standing well above the mark required by the school for promotion or graduation. The candidate may be certified by his principal upon the Principal's Recommendation, Form B. Copies of this form will be sent by the Recorder either to high school principals or to candidates for admission.

Caution.—Candidates recommended in accordance with the foregoing provisions are admitted to the University and enrolled in the curricula of their choice. It will be seen, however, that some of these curricula cannot be completed in the University in the normal period (four years for the degree A.B. or B.S.) unless the candidate during his high school course has completed such specific prerequisites as may underlie the University work. A list of the curricula, with a statement of the preparatory work required and recommended, is given hereunder.

Applicants from states other than California will also be accepted upon presenting an admission certificate from any of the dental schools

holding membership in the Dental Faculties Association of American Universities.

The schools holding membership in this association are: Harvard University Dental School, University of Pennsylvania School of Dentistry, University of Michigan School of Dentistry, University of Iowa School of Dentistry, University of Minnesota School of Dentistry, University of California College of Dentistry, Washington University Dental School, University of Illinois College of Dentistry, and Ohio State University College of Dentistry, Tufts College Dental School, University of Nebraska College of Dentistry.

Students may be admitted to advanced standing from other dental schools, medical schools, or universities (1) upon presenting a certificate issued by the Committee on Credentials at Berkeley showing that the applicant has had scholastic preparation equivalent to that demanded for admission to the University of California; and (2) on presenting credentials for the work of college grade, which must be approved by the faculty of the College of Dentistry. Time credit will be based wholly on subject credit. Examinations in all subjects may be required by the faculty.

ADMISSION BY EXAMINATION

Candidates who are unable to present satisfactory school certificates may be admitted to the University by passing examinations in the preparatory subjects constituting a standard high school course. The subjects to be presented must be arranged in advance with the University. The subjects to be required by the University will depend upon the applicant's high school training, his age, and his proposed course of study in the University. The applicant must pass examinations in at least fifteen standard high school units.

Applications for admission should be made at the office of the Recorder of the Faculties, California Hall, Berkeley, California. Applications may be sent by mail. Information concerning the list of preparatory subjects, matriculation examinations, recommendations, dates for application and other matters is contained in the Circular of Information concerning the Academic Departments to be obtained, on request, from the Recorder of the Faculties.

SUMMER SESSION COURSES

At present there is opportunity during the Summer Session for students to do systematic work in certain high school subjects including elementary chemistry, physics, mathematics, drawing and foreign languages. Further information will be found in the announcement of the Summer Session, published annually in April, to be obtained from and Dean of the Summer Session, 105 California Hall, Berkeley, California.

FOUR-YEAR COURSE

Beginning with the session of 1917-18, the course of study was changed from three years of thirty-two weeks each to four years of thirty-two weeks each. The calendar as arranged for 1920-21 affords opportunity for student employment during the vacation period, when the demand for unskilled labor is the greatest. The early seasons in horticulture and agriculture happily approximate the long vacation periods, so that students who are obliged to devote this time to revenue-producing labor usually have no difficulty in obtaining employment.

FIVE-YEAR COURSE

The leading dental colleges in the United States are now planning to inaugurate a five-year course beginning in the fall of 1921.

FURTHER INFORMATION

For further information concerning the preparatory subjects, matriculation examinations, admission to advanced standing and the requirements for the Bachelor's Degree refer to the Circular of Information concerning the Academic Departments, copies of which may be obtained from the Recorder of the Faculties, University of California, Berkeley, California.

FOREIGN STUDENTS

Students desiring to matriculate in this college from foreign countries will be permitted to substitute satisfactory courses in history, law, language and literature in lieu of similar preliminary requirements offered by high schools accredited to the University of California. A knowledge of English sufficient to comprehend the course of study will be required, in all cases to be determined by the official examiner.

ADMISSION TO ADVANCED GRADES ON CERTIFICATES

The college will receive into the advanced grades of second year and third year only such students as hold certificates of having passed examinations in the studies of the first-year or second-year grades respectively in a school which demands the same or higher preliminary educational requirements and maintains the same curriculum; except that a student who presents satisfactory evidence of graduation from a reputable medical college may be given such advanced standing as his previous training may justify, provided he make up the prescribed subjects in which he may be deficient.

All students who have successfully passed their examinations for advanced standing and have complied with all the rules of the College of Dentistry shall have their reports given or mailed to them within thirty days after

such examinations shall have been completed, such reports to be pledged to any college to whom the holders may apply that the requisite number of terms have been spent in the College of Dentistry, University of California.

THE MASTER'S DEGREE

Bachelors of Art or Science of this University who are planning regular courses leading to a degree in the College of Dentistry may receive a master's degree (M.A. or M.S.) under the following conditions:

(a) The candidate must have finished creditably two years in the curriculum of the professional college.

(b) He must have received credit, in addition to his work for the professional degree, for eight semester units of graduate work, including a thesis, and such graduate work must be approved by the Graduate Council.

EXTRACTS FROM REGULATIONS

The following are the regulations governing undergraduate attendance, except such as are given elsewhere in this announcement.

ATTENDANCE

Eighty per cent of attendance will be required in all lecture and laboratory courses, as well as in general attendance.

Every student is required to attend all his class exercises and to satisfy the instructor in each of his courses of study, in such a way as the instructor may determine, that he is performing the work of the course in a systematic manner.

Any instructor, with the approval of the Dean, may at any time exclude from his course any student who, in his judgment, has neglected the work of the course. Any student thus excluded shall be recorded as having failed in the course of study from which he is excluded, unless the faculty shall otherwise determine.

EXAMINATIONS

No student will be excused from assigned examinations.

No book, manuscript or other source of information shall be brought into any examination room, except by the explicit order of the examiner. Nor shall any student, in the course of an examination, have any communication with another student for any reason whatever.

Any student tardy at an examination will be debarred from taking it, unless an excuse for such tardiness entirely satisfactory to the examiner be rendered.

A fee of five dollars is charged for every special examination. Any supplementary or deferred test required by an instructor of a student

for the purpose of making up a course left "incomplete" is regarded as a special examination. Students taking two or more such examinations in courses taken during any one half-year will be charged not to exceed ten (10) dollars for all such examinations, instead of being charged at the rate of five dollars for each examination.

GRADES OF SCHOLARSHIP

The results of examinations, together with term work when a record of the latter is kept, will be ranked and reported to the Recorder in five grades. The first grade denotes marked excellence. The second grade indicates that the student's work has been thoroughly satisfactory. The third grade denotes a pass. Courses in which students have obtained a fourth grade will not be credited to them, except upon the condition of passing a re-examination. The fifth grade indicates a failure and the necessity of repeating not only the examinations of the course but also the regular work, in accordance with these regulations. At the request of the Surgeon General U. S. Army the reports will be issued on a percentage basis. The report in case of absence from an examination, or of failure to perform any of the allotted tasks in a given course, is incomplete. Work so reported must be made up within a year.

Re-examinations are permitted only for the purpose of removing deficiencies. Students who have received second grade or third grade in a given course are not allowed re-examinations for the purpose of improving their grading.

CONDITIONS AND FAILURES

For the removal of conditions, students shall have the privilege of taking the regular mid-year or annual examinations in the subjects in which they are conditioned. Examinations may be held at other times only by special permission of the Academic Senate and on payment of a fee of five dollars.

Any undergraduate student who is reported as having failed in an examination, or who, after being conditioned, does not pass the re-examination for the removal of the condition, will be required to repeat every such deficient subject with the class that next takes it; unless, on recommendation of the officer of instruction in charge, the faculty shall permit him to review a subject in which he is thus deficient with the assistance of an acceptable private tutor.

LEAVE OF ABSENCE

Prolonged leave of absence must be sought by written petition to the Dean, and the petition must specify the length of time (not more than a year) and the reason for which the leave is desired. An indefinite leave of absence will in no case be granted.

A student must apply for leave to be absent or excuse for having been absent from any college exercise other than examination to the officer of instruction in charge of such exercise; unless, for unavoidable cause, the student is obliged to absent himself from all college exercises for one day or several days, in which case the Dean will issue a written excuse of leave. Leave to be absent from an examination must be sought by written petition to the proper officer of instruction.

Students who discontinue their work without formal leave of absence do so at the risk of having their registration privileges curtailed or entirely withdrawn.

When any student shall have been continuously absent from his classes for two consecutive weeks, without official leave of absence, the Dean shall notify his parents or guardian that he will be dropped from the roll of the college should not satisfactory explanation of the absence be forthcoming within two weeks.

Students incapacitated by illness or for other good cause (to be determined by the faculty) may receive credit in lieu of attendance, upon presentation of certificate of physician in charge.

DISCIPLINE

The University authorities expect all students to set and observe among themselves a proper standard of conduct. It is therefore taken for granted that, when a student enters the University, he has an earnest purpose and studious and gentlemanly habits; and this presumption in his favor continues until, by neglect of duty or ungentlemanly behavior, he reverses it. But if an offense occurs, whether it be against good behavior or academic duty, the University authorities will take such action as the particular occurrence, judged in the light of the attendant circumstances, may seem to them to require. Students who fail to make proper use of the opportunities freely given to them by the University must expect to have their privileges curtailed or withdrawn.

Grades of Censure.—Censure will be expressed in the four grades of probation, suspension, dismissal, and expulsion. Probation indicates that the student is in danger of exclusion from the University. Suspension is exclusion from the University for a definite period. Dismissal is exclusion for an indefinite period, and with the presumption that the student's connection with the University will be ended by it. Expulsion is the highest academic censure, and is final exclusion of the student from the University.

Students Must Obey Laws.—All students in this college shall obey the laws regulating the practice of dentistry, or upon failure to do so shall subject themselves to the rules of discipline as above.

COURSE OF STUDY
FRESHMAN SCHEDULE
 Subject to change, August, 1920
FIRST HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Drawing Lecture	Applied Physics Lecture	Drawing Lecture	Inorganic Chemistry Lecture	Drawing Lecture	Applied Physics Recitation
9	Instrumental and Free Hand Drawing Laboratory	Applied Physics Laboratory	Instrumental and Free Hand Drawing Laboratory	Applied Physics Laboratory	Instrumental and Free Hand Drawing Laboratory	Applied Physics Laboratory
10				4th Thursday Student Body Meeting		
11						
1		Biology Lecture	Biology Lecture	Biology Lecture	Hygiene Lecture	
2	Inorganic Chemistry Laboratory	Biology Laboratory	Biology Laboratory	Biology Laboratory	Laboratory	
3						
4	Inorganic Chemistry Recitation	English	English	English		
5						

SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Dental Anatomy Lecture	Prosthetic Technic Lecture	Dental Anatomy Recitation	Inorganic Chemistry Lecture	Dental Anatomy Lecture	Prosthetic Technic Recitation
9	Dental Anatomy Laboratory	Prosthetic Technic Laboratory	Dental Anatomy Laboratory	Prosthetic Technic Laboratory	Dental Anatomy Laboratory	Prosthetic Technic Laboratory
10				4th Thursday Student Body Meeting	Modeling	
11	Modeling		Modeling		Hygiene Lecture or Recitation	
1				General Anatomy	General Anatomy	
2	Inorganic Chemistry Laboratory	General Anatomy	General Anatomy			
3				English		
4	Inorganic Chemistry Recitation	English	English			
5						

SOPHOMORE SCHEDULE
 Subject to change, August, 1920
FIRST HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Organic Chemistry Lecture	Operative Technic Lecture	Prosthetic Dentistry Lecture	Operative Technic Lecture	Prosthetic Dentistry Recitation	Metallurgy Lecture
9	Organic Chemistry Laboratory	Operative Technic Laboratory	Prosthetic Technic Laboratory	Operative Technic Laboratory	Prosthetic Technic Laboratory	Metallurgy Laboratory
10				4th Thursday Student Body Meeting		
11	Physiology Lecture	Anatomy	Anatomy	General Histology	Physiology Lecture	
2					Physiology Laboratory	
3	Physiology Laboratory					
4						
5						

SECOND HALF YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Operative Technic Laboratory	Prosthetic Dentistry Lecture		Prosthetic Dentistry Lecture	Dental Histology Lecture	Metallurgy Lecture
9			Mouth Hygiene Lecture	Prosthetic Technic Laboratory	Mouth Hygiene Lecture	
10	Dental Pathology Lecture	Prosthetic Technic Laboratory				Metallurgy Laboratory
11	Mouth Hygiene Lecture		Mouth Hygiene Clinic	4th Thursday Student Body Meeting	Mouth Hygiene Clinic	
1		Bacteriology Lecture	Bacteriology Lecture	General Pathology Lecture	Operative Technic Laboratory	
2						
3	Prosthetic Technic Laboratory	Bacteriology Laboratory	Bacteriology Laboratory	General Pathology Laboratory	Dental Histology Lecture	
4						
5					Dental Histology Laboratory	

JUNIOR SCHEDULE
 Subject to change, August, 1920
FIRST HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Clinical Dentistry	Orthodontics Lecture		Material Medica Lecture	Dental Pathology Lecture	Material Medica Recitation
9			Dental Porcelain Lecture			
10		Orthodontic Technic Laboratory	Dental Porcelain Laboratory		Clinical Dentistry	Clinical Dentistry
11	Crown and Bridge Prosthesis			4th Thursday Student Body Meeting		
1		Crown and Bridge Lecture	Operative Dentistry Lecture			
2						
3	Clinical Dentistry	Crown and Bridge Technic Laboratory	Clinical Dentistry	Clinical Dentistry	Crown and Bridge Technic Laboratory	
4						
5						

SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Clinical Dentistry	Radiography Lecture	Crown and Bridge Technic Dental Porcelain Laboratory	Materia Medica Lecture	Dental Pathology Lecture	Materia Medica Recitation
9		Radiography Laboratory		Comparative Odontology	Clinical Dentistry	Clinical Dentistry
10	Crown and Bridge Prosthesis	Crown and Bridge Lecture	Crown and Bridge Lecture	4th Thursday Student Body Meeting		
11				Operative Dentistry Lecture	Clinical Dentistry	
1	Clinical Dentistry	Crown and Bridge Lecture	Clinical Dentistry	Clinical Dentistry	Dental Pathology Laboratory	
2		Crown and Bridge Technic Laboratory				
3						
4						
5						

SENIOR SCHEDULE

Subject to change, August, 1920

FIRST HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Dental Pathology Lecture	Biochemistry Lecture	History and Economics Lecture	Biochemistry Lecture	Local Anesthesia Lecture	
9	Clinical Dentistry			Clinical Prosthodontia	Principles of Surgery Lecture	Prosthodontia Laboratory
10	Anatomical Articulation	Clinical Prosthodontia	Clinical Dentistry			
11				4th Thursday Student Body Meeting	Oral Surgery Clinic	
1			Extraction Lecture			
2						
3	Clinical Dentistry	Clinical Dentistry	Extraction Clinic Orthodontic Clinic	Clinical Dentistry	Clinical Dentistry	
4						
5						

SECOND HALF-YEAR

Hrs.	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY	SATURDAY
8	Dental Pathology Lecture	Biochemistry Lecture	History and Economics Lecture	Biochemistry Lecture		
9	Clinical Dentistry			Clinical Prosthodontia	Principles of Surgery Lecture	Prosthodontia Laboratory
10	Anatomical Articulation		Clinical Dentistry		Oral Surgery Clinic	
11				4th Thursday Student Body Meeting		
1						
2						
3	Clinical Dentistry					
4		Clinical Dentistry	Extraction Clinic Orthodontic Clinic	Clinical Dentistry	Clinical Dentistry	
5	Seminar Prosthetic Dentistry					
6						

TEXT BOOKS

Books used are listed according to the year they are required. Those mentioned as texts are required in the latest edition. Other texts than those mentioned may be required. Students should not purchase obsolete editions because they are of little value.

Arrangements have been made with the various publishing houses whereby all text and references can be ordered through the college office and delivered in the shortest possible time. Prices are subject to change without notice.

FRESHMAN YEAR

Anatomy—Text, Gray, \$8; references: Buchanan, Cunningham, Morris.

Biology—Text; references: Smallwood.

Chemistry—Text, Simon, \$4; references: Holland, Remsen.

Dental Anatomy—Text, Black, \$2.50; references: Kirk, Broomell.

Dictionary—Gould, \$2; Dorland, Harris, Dungleson, Stedman.

Hygiene—Text, Hough & Sedgwick, *The Human Mechanism*, \$2.

Physics—Text; references.

Prosthetic Dentistry—Prothero, \$9; references: Turner, Wilson, Haskell.

English—Texts, *Writings of Today*, Cunliffe & Lomer, \$2; *Century Handbook of Writing*, Greever & Jones, \$.90.

SOPHOMORE YEAR

Bacteriology—Text, Jordan, \$4.25; references: Hiss Zinsser.

Dental Metallurgy—Text, Hodgen, \$2.50; references: Brady, Roberts-Austen.

Dental Pathology and Therapeutics—Text, V. G. Black, \$7; references: Burchard, Prinz, Buckley.

General Pathology—Text, Stengel, \$6.50.

Histology—Text, Noyes, \$4.50; references: Hopewell-Smith; Broomell & Fischelis, *Tomes*.

Histology (General)—Bailey's, \$4.

Operative Dentistry—Text, G. V. Black, two volumse, \$11; references: Marshall, Johnson, Kirk.

Physiology—Text, Howell, \$5.50; references: Tigerstedt, tr. by Murlin, *Kirks*, 20th ed.

JUNIOR YEAR

Crown and Bridge Work—References: Peeso, Goslee, Evans.

Dental Porcelain—Text, Bean.

Materia Medica—Text, Prinz, \$5.50; references: Long, Butler, Buckley.

Orthodontics—Text, Lischer, \$3; references: Angle, Dewey, Case, Guilford, C. N. Johnson, latest edition.

Radiography—Hubbell, \$.75; references: Raper, McCoy.

SENIOR YEAR

Comparative Anatomy of the Teeth—Thompson, Osborn, The Evolution of Mammalian Molar Teeth.

Local Anesthesia—Text, Fischer, \$4; reference: Otteson.

Oral Surgery—References: Brophy, \$13; Blair, Brown, Marshall.

REQUIREMENTS FOR GRADUATION

The candidate for the degree of Doctor of Dental Surgery must be of good moral character and he must complete all technic work prescribed throughout the course, perform all operations, treat all cases specified by the respective professors, as a technical and clinical foundation for general practice. Values for technical and clinical work are given in terms of points, which are convertible into units at the close of the term. All this must be done in the college building and exclusively by the applicant for the degree. He must have conformed to all the rules of the college and paid all fees. He must pass a satisfactory examination—oral, written, or practical. When these requirements have been complied with, he will be recommended to the Board of Regents for the degree of Doctor of Dental Surgery.

**EXTRACTS FROM THE LAW REGULATING THE PRACTICE OF
DENTISTRY IN CALIFORNIA**

[Approved May 21, 1915]

SECTION 1. It shall be unlawful for any person to engage in the practice of dentistry in the State of California unless such person shall have obtained a license from the board of dental examiners of the State of California, as hereinafter provided, except that the license of any dentist, existing at the time of the passage of this act shall continue in force until forfeited in the manner hereinafter provided and the annual tax paid by any such dentist under the terms of the laws of the State of California existing at the time of the passage of this act shall keep such license in force until the expiration of the time for which the same was paid, and thereafter the holder of such license shall be subject to the annual tax in this act provided. Nothing herein contained shall be construed to exempt from the payment of the annual tax any person authorized to practice dentistry in the State of California, and every person practicing dentistry in this state shall, irrespective of the time when he was licensed or first had the right to lawfully practice dentistry in this state or elsewhere, pay an annual tax of two dollars as hereinafter provided.

SEC. 6. Any person over twenty-one years of age shall be eligible to take an examination before the board of dental examiners of California,

upon making application therefor and upon (1) paying a fee of twenty-five dollars; (2) furnishing satisfactory testimonials of good moral character; and (3) furnishing satisfactory evidence of having graduated from a reputable dental college, which must have been approved by the board of dental examiners of California; *provided*, that after August 1, 1918, he shall also file his diploma or certificate of graduation with recommendations from a high school accredited to the University of California or any other university of equal standing; or a certificate signed by a state superintendent of public instruction, or similar officer, to the effect that such applicant has had scholastic preparation equivalent in all respects to that demanded for graduation with recommendations from a high school giving a four year course of instruction in the state from which such certificate is issued; (4) in lieu of such diploma or certificate from an accredited high school, such applicant, after said date, may and with like effect furnish to said board of dental examiners a certificate from the board of dental examiners, or similar official body, of some other state in the United States, showing that such applicant has been a duly licensed practitioner of dentistry in such other state for a period of at least five years; *provided, however*, that every person actually engaged as an apprentice to a regularly licensed dentist who has practiced in the State of California for ten years or more shall be eligible for examination, if, within thirty (30) days after the passage of this act, he shall file with the secretary of the board an affidavit stating his name, age, the length of time for which he has been actually apprenticed and with whom; and who, at the time of his application for examination, shall show to the satisfaction of the board that he has served an apprenticeship of at least five (5) years and is a graduate from a high school or similar institution of learning in this or some other state of the United States requiring a three (3) years' course of study; *and provided*, that no examination shall be given to an applicant claiming the right to take the same as an apprentice later than December 30, 1915.

SEC. 7. The examination by the board of applicants for license to practice dentistry in this state shall be sufficiently thorough to test the fitness of the applicant to practice dentistry. It shall include, written in the English language, questions on the following subjects: Anatomy, histology, physiology, anaesthesia, materia medica, pathology, bacteriology, therapeutics, oral surgery, chemistry, metallurgy, operative dentistry, prosthetic dentistry and orthodontia; the answers to which shall be written in the English language. Said written examination may be supplemented by an oral examination. Demonstrations of the applicant's skill in operative and prosthetic dentistry must also be given. All persons successfully passing such examination shall be registered as licensed dentists on the board register, as provided in section three, and shall be

granted by the board a license to practice dentistry in the State of California. When a candidate for a license shall have received a grading of eighty-five per cent or above in any given subject, he shall be exempt from re-examination on that subject in subsequent examinations before the said board held at the first or second meeting thereafter. Any member of the board may inquire of any applicant for examination concerning his character, qualifications or experience and may take testimony of any one in regard thereto, under oath, which he is hereby empowered to administer.

SEC. 11. Any person shall be understood to be practicing dentistry within the meaning of this act who shall (1) by card, circular, pamphlet, newspaper, or in any other way advertise himself as a dentist, or (2) who shall, for a fee, salary or reward, paid directly or indirectly either to himself or to some other person, perform an operation of any kind upon, or treat diseases or lesions of the human teeth or jaws, or correct mal-imposed positions thereof, or (3) in any way indicate that he will perform by himself or his agents or servants any operations upon the human teeth or jaws, or (4) make an examination of, with intent to perform or cause to be performed any operation on the human teeth or jaws, or (5) who manages or conducts as manager, proprietor, conductor, or otherwise a place where dental operations are performed; but nothing in this act contained shall prohibit bona fide students of dentistry from operating in the clinical departments or the laboratory of a reputable dental college, or an unlicensed person from performing merely mechanical work upon inert matter in a dental laboratory or a licensed physician from practicing oral surgery.

FEES

A matriculation fee of ten dollars (\$10) demanded of all new students is payable on registering. This is not a returnable fee and is payable but once.

The tuition fee of the session 1919-20 will be \$150, payable at the beginning of the year to the Dean. By special arrangement one-half of the tuition may be paid at the beginning of the second half-year.

The laboratory deposits amount to thirty-seven dollars and fifty cents (\$37.50) the first year, \$37.50 the second year, \$25 the third year, and \$15 the fourth year. In addition a Rental and Depreciation fee of \$5 is charged third and fourth year students using clinic equipment. This latter fee is not refundable but is offset by the fact that students are not required to purchase foot engines and instrument cases at a cost of about \$75. Anatomical material is \$5 for each part.

All checks, money orders or drafts should be made payable to the College of Dentistry, University of California.

ANNOUNCEMENT OF COURSES†

OPERATIVE DENTISTRY

GEORGE LUSK BEAN, D.D.S., Clinical Professor of Operative Dentistry and Dental Porcelain.

M. THAYER RHODES, D.D.S., Assistant Clinical Professor of Operative Dentistry.

FRANCIS VANCE SIMONTON, D.D.S., Associate Professor of Operative Dentistry.

ARTHUR H. NOBBS, B.A., D.D.S., Chief Instructor in Clinical Dentistry.

SAXON BIRD SCOTT, D.D.S., Instructor in Dental Porcelain.

JACOB FREDERIC STEFFAN, D.D.S., Clinical Instructor in Operative Dentistry.

CHARLES BERNARD MUSANTE, D.D.S., Clinical Instructor in Operative Dentistry.

HAROLD JOHN BRUHNS, D.D.S., Clinical Instructor in Operative Dentistry.

WILLIAM CARL WRIGHT, D.D.S., Instructor in Dental Porcelain.

SHERMAN ALOYSIUS WHITE, D.D.S., Clinical Instructor in Operative Dentistry.

THORNTON CRAIG, D.D.S., Clinical Instructor in Operative Dentistry.

HENRY OTTO EGGEET, D.D.S., Clinical Instructor in Operative Dentistry.

WALTER HAZELWOOD LOWELL, D.D.S., Clinical Instructor in Operative Dentistry.

CHESTER WILLIAM JOHNSON, D.D.S., Instructor in Operative Dentistry.

ALLISON MILLS CHURCH, D.D.S., Clinical Instructor in Operative Dentistry.

FRED OTTO HOEDT, D.D.S., Clinical Instructor in Operative Dentistry.

EDGAR WRIGHT SNELL, D.D.S., Clinical Instructor in Operative Dentistry.

JOHN LOCKHART CAMPBELL, D.D.S., Instructor in Operative Dentistry.

The lecture courses described below are illustrated by lantern slides, charts and models. The laboratory courses are designed as supplementary courses for the purpose of developing digital skill.

LOWER DIVISION COURSES

1. Instrumental Drawing.

SIMONTON and JOHNSON

Geometric design, lettering, tool and machine design; planned to develop digital skill and accuracy.

Lect: M F, 8. Lab: M F, 9-12, first year, first semester, 3 units.

† The hours for all courses are subject to change in August, 1920.

1. (a) **Elementary Freehand Drawing.** SIMONTON and JOHNSON
Dawing with pencil from models; light, shade, and perspective; drawing with pen and ink, stippling, and with crayons. Special attention is paid to tooth forms.
Lectures: W, 8. Laboratory: W, 9-12, first year, first semester, 2 units.
2. **Dental Anatomy.** SIMONTON
Tooth forms, basic design and modification thereof; the structural elements and internal anatomy of human teeth; classes, types of incisors, cuspids, bicuspid, and molars.
Lectures: M W F, 8, first year, second semester, 3 units.
2. (a) **Modeling and Carving.** SIMONTON and JOHNSON
Dental anatomy; molding teeth in plaster of paris five diameters, modeling in plasticene, from casts, skulls and life, including all the teeth; carving teeth in modeling compound and celluloid, actual size to show geometric design contour and form.
Laboratory: M W F, 9-12, first year, second semester, 3 units.
11. **Operative Technic.** SIMONTON
Cavity preparation, root canal operations, filling materials and instrument making are discussed. The object of this course is to fit the student for clinical practice. Prerequisite courses 2, 2 (a).
Lectures: Tu Th, 8. Laboratory: Tu Th, 9-12, second year, first semester, 4 units.
Lectures: S, 8, second year, second semester, 1 unit. Laboratory: W, 1-5, second year, second semester, 1 unit.
12. **Mouth Hygiene and Prophylaxis.**
MILLBERRY, SIMONTON, and HANFORD
Designed to prepare the student for preventive dentistry. History, public service and economic phases; nature and importance of the structures involved; and the technical procedure in prophylaxis are discussed separately, yet coordinated. Prerequisite: courses 2, 2 (a).
Lectures: M, 11; W F, 9. Laboratory and clinic: W F, 10-12, 4 units.

UPPER DIVISION COURSES

101. **Operative Dentistry.** SIMONTON, JOHNSON, and CLINICAL STAFF
Dental caries, erosion, hypoplasia and abrasion; cavity instrumentation, root canal operations, properties of plastic filling materials and technical procedures in use of the same. Prerequisite: courses 11, 12.
Lectures: W, 1, third year, continuous throughout year, 2 units.
Clinic: M, 1-5; Th, 1-5; F, 9-12; S, 9-12 throughout year, 8 units.

102. Dental Histology.**SIMONTON and CAMPBELL**

A microscopic study of the hard tissues of the teeth, the pulp, periodontal membrane, gums and soft tissues of the oral cavity; tooth development is thoroughly discussed. Prerequisite: course 16.

Lecture: F, 8-3. Laboratory F, 4-6, second year, second semester, 2 units.

111. Operative Dentistry.

BEAN, RHODES, SIMONTON, NOBBS, STEFFAN, MUSANTE, BRUHNS, WRIGHT, WHITE, CRAIG, EGGERT, LOWELL, CHURCH, HOEDT, SNELL

Clinical operative work, primarily dental practice, supplemented by lectures and elective seminar courses. A major subject. A passing grade in this course is required for graduation. Correlated with course 109 (b). Prerequisite: course 101.

Lectures: Clinic: M, 1-5; Tu, 1-5; W, 9-12; Th, 1-5; F, 1-5, continuous throughout the year, 12 units.

112. Dental Porcelain.**BEAN, S. B. SCOTT, WRIGHT**

Characteristics, uses and limitations of porcelain bodies. Preparation of cavities for porcelain inlay work, and of roots for porcelain shell crowns. Porcelain bridge work and making gum sections for restorative purposes. Each student is required to furnish platinum for his own technic work, which is returned at the close of the year.

Lectures: W, 9, third year, first semester, 1 unit. Laboratory: W, 10-12, third year, continuous throughout the year, 2 units. Students must have satisfactorily completed the course given during the third year before registering for the fourth year course. Clinic: W, 10-12, fourth year, continuous throughout the year, credit included in clinical operative dentistry.

PROSTHETIC DENTISTRY

WILLIAM FULLER SHARP, D.D.S., D.M.D., Professor of Clinical Prosthodontia.

EDWIN HENRY MAUK, D.D.S., Professor of Prosthetic Dentistry.

CLARK RANSOM GILES, D.D.S., Instructor in Prosthetic Dentistry.

ARTHUR H. NOBBS, B.A., D.D.S., Chief Instructor in Clinical Dentistry.

FRANK CABUL BETTENCOURT, D.D.S., Clinical Instructor in Prosthetic Dentistry.

OLIVER AMBROSE HABERDIEE, D.D.S., Clinical Instructor in Prosthetic Dentistry.

HARRIS E. RIDENOUR, D.D.S., Instructor in Prosthetic Dentistry.

LEON W. MARSHALL, D.D.S., Instructor in Crown and Bridge Work.

The lectures are illustrated by lantern slides, charts and models and include a discussion of the physical and chemical properties of the materials used in the dental laboratory and for the construction of artificial dentures. The anatomical considerations involved in facial restoration are fully discussed. In the laboratory, the student is taught the different procedures from a technical and practical standpoint.

LOWER DIVISION COURSES**3. Applied Physics.****MAUK**

The principles of physics as applied to the science of dental prosthesis.

Lectures: Tu S, 8. Laboratory: Tu Th S, 9-12, first year, first semester, 5 units.

4. Prosthetic Technic.**MAUK.**

The use of impression materials with master models, the making of casts, and the elementary procedures in dental prosthesis. Technic specimens are required each month.

Lectures or recitations: Tu S, 8. Laboratory: Tu Th S, 9-12, first year, second semester, 5 units.

13. Prosthetic Dentistry.**RIDENOUR**

Advanced work in prosthetic technic and practical cases in plate prosthesis. Prerequisite: course 4.

Lectures or recitations: W F, 8. Laboratory: W F, 9-12, second year, first semester.

Lectures or recitations: Tu Th, 8. Laboratory: M, 1-5; Tu Th, 9-12, second year, second semester, 4 units.

UPPER DIVISION COURSES

103. Crown and Bridge Prosthesis.

MAUK, NOBBS, BETTENCOURT, L. W. MARSHALL

Basic principles. Lectures, demonstrations and technical instruction.

Clinical work is required. Prerequisite: course 13.

Lectures: Tu, 1, third year, continuous throughout the year. Laboratory: Tu F, 2-5, third year, first semester. Laboratory: Tu W, 2-5, third year, second semester. Clinical: M, 8-12, third year, continuous throughout the year. 8 units.

113. Prosthodontia.

W. F. SHARP, NOBBS, and CLINICAL STAFF

Advanced clinical work only. Practical cases involving the restoration of all of the teeth, or any portion of them, by means of crowns, fixed and removable bridges, and partial and full dentures. A major subject. A passing grade is required for graduation. Prerequisite: course 103.

Clinic: Tu Th, 9-12. Laboratory: S, 8-12, fourth year, continuous throughout the year, 6 units.

113A. Prosthetic Dentistry.

MAUK

A seminar course conducted after the plan of dental society meetings in which theses are presented and discussed by members of the class. Collateral reading is required. The subject of anatomical articulation is fully covered. A major subject. A passing grade is required for graduation. Prerequisite: course 103.

Laboratory and Clinic (Anatomical Articulation): M, 9-12, continuous throughout the year, 2 units.

ORAL SURGERY

JAMES GRAHAM SHARP, M.D., D.D.S., Professor of the Principles and Practice of Surgery.

HERBERT T. MOORE, B.S., D.D.S., Lecturer in Surgery.

ALFRED CURRIE RULOFSON, D.D.S., Instructor in Anesthesia.

WILLIAM HENRY HANFORD, D.D.S., Instructor in Extracting and Prophylaxis.

LEO SCHUCHARD, D.D.S., Instructor in Extracting.

H. H. ALVAREZ, D.D.S., Instructor in Extracting.

Courses in this department will be both clinical and didactic, comprising all surgical operations about the mouth and contiguous parts, supplemented by instruction and demonstration in extracting, with practical application of general anesthetics.

UPPER DIVISION COURSES

105. Surgical Anatomy.

SHARP and ALVAREZ

A surgical dissection on the cadaver designed to outline the steps in surgical procedure. A study of the tissues involved in surgically treating fractures, antra, alveolar abscesses, root resections, extraction and curettement will be required. Prerequisite: course 15.

Lecture demonstrations: Tu, 9, third year, first semester, 1 unit.

115. Principles of Surgery.

MOORE

A discussion of infection, inflammation, trauma, shock, repair and regeneration from the surgical viewpoint. Prerequisite: course 19.

Lectures: F, 9, continuous throughout the year, 2 units.

115A. Oral Surgery.

J. G. SHARP, CAREY, RULOFSON, ALVAREZ, Mrs. BROYLES

Lectures on surgical problems of the oral cavity with a discussion of the clinical cases presented for treatment. Students participate in clinical work in rotation. Prerequisite: courses 15, 18, 19, 20, 110.

Clinical Lectures: F, 10-12, continuous throughout year, 4 units.

Examination, discussion, and post operative treatment of clinical cases, Tu, 10-12. Students participate by appointment only. Credit included in general course.

116. Extraction.**HANFORD, SCHUCHARD, and ALVAREZ**

Form and relation of teeth, instrumentation, disinfection, anesthesia, preliminary and post operative treatment of cases, resuscitation. Each student is obliged to participate at definite periods. Prerequisite: courses 2, 18, 20, 102.

Lectures: W, 1, fourth year, first semester, 1 unit.

Clinic: W, 2-5, continuous throughout year, 1 unit.

118. Anesthesia and Physical Diagnosis.**CAREY**

Physical diagnosis is discussed in the presentation of cases for surgical treatment under a general anesthetic. General anesthesia is discussed and clinical instruction given, each student being obliged to participate at definite periods, in a like manner. Prerequisite: courses 6, 17, 20, 107.

F, 10-12, continuous throughout the year. Credit included in 115.

108. Local Anesthesia.**RULOFSON**

Lectures and recitations cover the entire field of local anesthesia, supplemented by clinical instruction on practical cases during the surgery clinic hours. Prerequisite: courses 15, 17, 20, 107.

Lectures: F, 8, third year, first semester, 1 unit.

ORTHODONTICS

ALLEN H. SUGGETT, B.S., D.D.S., Professor of Orthodontics.

ALLEN E. SCOTT, D.D.S., Clinical Instructor in Orthodontics.

— — —, Instructor in Orthodontic Technic.

FRANCIS WAYLAND EPLEY, B.S., D.D.S., Instructor in Radiography and Orthodontics.

THOMAS RALPH SWEET, D.D.S., Instructor in Orthodontics.

The lectures are supplemented by the use of models, lantern slides and charts. The laboratory work is designed to include the technic requisite in clinical practice. Clinical practice is a requirement.

UPPER DIVISION COURSES**104. Theory of Orthodontics.****SUGGETT**

Normal occlusion and mal occlusion. Different plans of procedure for the correction of different types of abnormalities. Prerequisite: courses 2, 15, 102.

Lectures: Tu, 8. Laboratory: Tu, 9-12, third year, first semester, 2 units.

114. Practice of Orthodontics.

SUGGETT and A. E. SCOTT

General lectures discussing the clinical application of the theories previously studied. Prerequisite: course 104.

Lectures: Tu, 8. Clinic: W, 3-5, fourth year, throughout the year, 2 units.

DENTAL PATHOLOGY AND BIOCHEMISTRY

JOHN ALBERT MARSHALL, D.D.S., Ph.D., Associate Professor of Dental Pathology and Biochemistry.

The subjects are presented by lectures, demonstrations and laboratory work.

UPPER DIVISION COURSES

109A. Dental Pathology.

MARSHALL

A preliminary discussion of inflammation followed by a study of the pathology of the mouth. Particular reference is made to the dental pulp and the periodontal tissues. Prerequisite: courses 15, 18, 19.

Lectures: F, 8, third year, continuous throughout the year, 2 units.

109B. Dental Pathology Laboratory.

MARSHALL

The preparation and study of pathologic oral tissues. Prerequisite: courses 17, 18, 19, 20.

Th, 9-12, third year, second semester, 1 unit.

119. Dental Pathology.

MARSHALL

A detailed discussion by both students and instructor of the pathological lesions of the oral mucosa and of problems of infection. Colateral reading is assigned for the student to abstract. Prerequisite: courses 109A, 109B.

Lectures: M, 8, fourth year, continuous throughout the year, 2 units.

119A. Research.

MARSHALL

Clinical investigation correlated with laboratory study. Open to students having the necessary preparation.

Fourth year. Hours and credit to be arranged.

119C. Clinical Dental Pathology and Therapeutics.

Advanced clinical instruction, elaborating the subject matter of 119A (see course 111). Prerequisite: courses 109A, 109B.

117A. Biochemistry.**MARSHALL**

Diet and nutrition. The relationship between the processes of digestion and assimilation to the normal and abnormal functioning of the salivary glands and the influence of these secretions upon the teeth. Prerequisite: course 17.

Lectures: Tu Th, 8, fourth year, continuous throughout the year, 4 units.

117D. Chemical Research.**MARSHALL**

Special problems assigned to properly qualified students.

Fourth year. Hours and credit to be arranged.

DENTAL ECONOMICS

GUY S. MILLBERRY, D.D.S., Professor of Chemistry and Metallurgy, and Dean.

LOUIS BARTLETT, Ph.B., LL.B., Lecturer in Dental Jurisprudence.

UPPER DIVISION COURSES**120. History and Economics.****MILLBERRY**

A review of the history and development of dental art and science from the earliest times. General economics, problems in ethics and accounting.

Lectures: W, 8, fourth year, continuous throughout the year, 2 units.

120A. Dental Jurisprudence.**BARTLETT**

Laws relative to the practice of dentistry, together with a brief summary on contracts and dento-legal problems.

Lectures: Hours to be assigned, fourth year, first semester, credit included in 120.

CHEMISTRY AND METALLURGY

GUY S. MILLBERRY, D.D.S., Professor of Chemistry and Metallurgy, and Dean.

JOHN E. GURLEY, D.D.S., Instructor in Inorganic Chemistry.

The courses in chemistry and metallurgy are both theoretical and practical. The lectures and recitations are further explained and elaborated by half-day laboratory periods.

LOWER DIVISION COURSES

7. Inorganic Chemistry. GURLEY
General inorganic chemistry and its application to dentistry.
Lectures: M, 4; Th, 8.
Laboratory: M, 1-4, first year continuous throughout year, 6 units.
17. Organic Chemistry. MILLBERRY
The principles of organic chemistry and its application to dentistry.
Prerequisite: course 7.
Lectures: M, 8.
Laboratory: 9-12, second year, first semester, 3 units.
14. Metallurgy (Applied). MILLBERRY
Practical metallurgy as applied to dentistry, including such subjects
as cements, amalgam alloys, and gold. Prerequisite: course 7.
Lectures: S, 8.
Laboratory: S, 9-12, second year, continuous throughout the year, 4
units.

PHYSIOLOGY

GEORGE WILLIAM SIMONTON, D.D.S., Instructor in Physiology.
The instruction consists of lectures, recitations and laboratory work.

LOWER DIVISION COURSES

20. General Physiology. G. W. SIMONTON
The elements of the physiology of circulation, respiration, assimilation,
and reproduction. Prerequisite: courses 6, 7.
Lectures: M F, 1.
Laboratory: M F, 2-5, second year, first semester, 4 units.

MATERIA MEDICA AND THERAPEUTICS

HENRY B. CAREY, B.S., M.D., Assistant Professor of Anatomy, Materia
Medica, and Therapeutics.

The general principles are studied by lecture and recitation. Prescrip-
tion writing is required.

UPPER DIVISION COURSES

107. General Materia Medica and Therapeutics.

CAREY

Prerequisite: course 17.

Lectures: Th S, 8, third year throughout year, 4 units.

BIOLOGY, ANATOMY AND HISTOLOGY

HENRY B. CAREY, B.S., M.D., Assistant Professor of Anatomy, Materia Medica, and Therapeutics.

———, Instructor in Biology.

The structure, function and organization of life forms. These subjects are presented essentially as laboratory courses supplemented by lectures and demonstrations. Dissections and recitations are required.

LOWER DIVISION COURSES

5. Biology.

Plant cells and the lower forms of animal life, the piscatores, and the vertebrates. A gross and microscopic study of the material presented. Note books.

Lectures: Tu W Th, 1. Laboratory: Tu W Th, 2-4, first year, first semester, 6 units.

6. Osteology and Anatomy.

CAREY

Dissection of the extremities, thorax and abdomen; designed to give the student a comprehensive understanding of human anatomy.

Prerequisite: course 5.

Lectures, Laboratory, and Recitation: Tu W Th, 1-4, first year, second semester, 3 units.

15. Osteology and Anatomy.

CAREY

Dissection of the head and neck; designed to prepare the student for advanced work on tissues, limited to the practice of dentistry.

Prerequisite: course 6.

Lectures, laboratory, recitations: Tu W, 1-4 second year, first semester, 1 unit.

16. Histology (general).

CAREY

Methods of preparing, staining, and mounting all classes of tissue, and a microscopic study of a mounted specimen. Prerequisite: courses 5, 6. Note books required.

Lectures: Th, 1. Laboratory: Th, 2-5, second year, first semester, 2 units.

BACTERIOLOGY AND PATHOLOGY

GLANVILLE Y. RUSK, A.B., M.D., Associate Professor of Pathology.
_____, Laboratory Assistant.

Fundamentals of pathology, leading to a discussion of problems of oral sepsis and infection.

LOWER DIVISION COURSES

18. Bacteriology.

The occurrence of bacteria in Nature. A study of their morphology; methods of cultivation including selection and preparation of suitable culture media. Methods of isolation in pure culture and of identification. Methods of sterilization and disinfection. More intensive study of the bacterial flora and the protozoa of the mouth and their significance in dental complications. The more important serological methods.

Lectures: Tu Th, 1. Laboratory: Tu Th, 2-5, second year, second semester, 4 units.

19. Pathology.

RUSK

Tissue changes in association with various types of infection. Alterations both acute and chronic by metastasis of infections, agents, and by toxic products. Types of oral and dental infection, their local and systematic effects. A general consideration of new growths with special reference to those found about the mouth and adjacent structures. Prerequisite: courses 6, 15, 16.

Lectures: W, 1. Laboratory: W, 2-5, second year, second semester, 2 units.

RADIOGRAPHY

FRANCIS W. EPLEY, B.S., D.D.S., Instructor in Radiography and Orthodontics.

Lectures, quizzes, and practical work with patients. The elements of electricity, history of the X-ray, tubes and the production of the ray, types of machines, the dark-room, nature of plates and films, development, radiopacity of various substances, technic of making dental radiographs, interpretation of plates and films, safeguards, and cost of installation and operation of X-ray outfits are discussed and demonstrated in the lecture room and laboratory.

UPPER DIVISION COURSES

110. Radiography.

EPLEY

Lecture: Tu, 8. Laboratory: Tu, 9-12, third year, second semester, 1 unit.

COMPARATIVE ODONTOLOGY

A study of the origin, kinds and attachments of teeth to be found in the various mammalian teeth and reptilian types; the theories as to the origin of the mammalian teeth, tracing the evolution from the ancestral type.

UPPER DIVISION COURSES**106. Comparative Odontology.**

Lecture: Th, 9. Laboratory: Th, 10-12, third year, second semester.

HYGIENE**8. General Hygiene.****MILLBERRY**

Personal and public hygiene. Mouth hygiene and the care of the hands.

Lectures: F, 1, first year continuous, throughout the year, 2 units.

ENGLISH**10. English.****PERHAM**

First semester: Oral composition, public speaking based upon current history. Required reading in literature and professional topics. Debates upon important political and social issues. Study of parliamentary law. Reviews of books and magazine articles. Written composition; study of sentence and paragraph structure and the use of words. Formal composition and assigned topics.

Second semester: Oral and written composition; continuation of the work of the previous semester. Methods of collecting and using the material for a thesis. Preparation of a thesis on an assigned subject. Study of the essay and the story story. Reading and discussion of "Writing of Today," edited by Cunliffe and Lomer.

Lectures: M W F, 4, first year, continuous throughout year, 6 units.

COLLEGE LIBRARY

ROBERT E. KEYS, D.D.S., Librarian.

The library, situated on the third floor of the college building, contains two thousand volumes. In addition to the latest textbooks on all dental and allied subjects, there are several complete files of many of the dental journals, some of them back to 1853, thus giving a very comprehensive review and history of the progress of dentistry.

Through the courtesy and generosity of the publishers, the library receives monthly copies of all the principal dental journals of this country, England, Canada, Australia, Japan, France, Germany, Spain, Mexico, and Chile.

MUSEUM

The museum contains a collection of anatomical, pathological, metallurgical and mineralogical specimens, crude drugs and chemicals, artificial dentures of all kinds, both early and modern. It also contains materials used in the manufacture of teeth as well as large casts and mammoth wooden teeth for illustrating procedures in operative dentistry, besides instruments and apparatus used in earlier periods, and specimens prepared by students, indicating the progress and methods of teaching dental technics.

There is also a fine collection of skulls of animals for the study of comparative odontology.

A valuable collection of casts of irregularities has accumulated from the college clinic and from private practice. These exemplify before and after treatment, and also the appliances by which the changes were accomplished.

All members and friends of the profession are invited to contribute books, pamphlets and journals, charts, anatomical, physiological and pathological specimens, casts of deformities and irregularities of the teeth and associated parts, or anything that will be useful and instructive. These contributions will be placed in the library and museum and marked with the names of the donors.

ALUMNI ASSOCIATION

The object of the association is the promotion of the highest excellence in the science and art of dentistry and dental education, the welfare of its members and the interests of its alma mater.

The membership is composed of members of the faculty and all graduates of the College of Dentistry, University of California, who are legal and ethical practitioners.

The officers for the year 1917-18 were:

J. Camp Dean, President.

Stanley L. Dod, Vice-President.

C. Dudley Gwinn, Secretary.

J. C. McGovern, Treasurer.

Alumni Councilor, J. E. Gurley.

Trustees: R. B. Giffen, Geo. E. Minahen, F. A. Curtiss, F. J. Seiferd,
N. C. Cummings.

THE STUDENT BODY

During the year 1918-19 student activities conformed to the traditions and policies of former years, during which time student self-government has been developed to a considerable degree. Matters arising within each class are handled by that class and matters of general importance are given consideration by the student body as a whole.

The hour 11 to 12 on the last Thursday of each month is reserved for student body meetings, all other exercises being suspended, at which meeting, beside the regular business transactions, lectures of general and special interest to the students are given by speakers selected by a committee from the student body. During the past year the activities centered around college athletics and music.

For the promotion of higher ideals and standards among the students an honor society was formed in 1915. Election to this society is based upon scholarship, integrity of character and good fellowship.

The Students Affairs Committee, which acts as an executive committee for the student body and as an intermediary between the students and the faculty, has been responsible for a high degree of student honor. The following action in force for some years past was voted on and approved:

"That the Superintendent be requested to make an inspection of each student's equipment in accordance with the requirements as published in the announcement in order to determine that each student has a complete outfit before he be allowed to take up any practical work."

Officers of the student body:

President: J. A. January.

Vice-President: B. M. Toffemire.

Secretary: W. G. Mortley.

Treasurer: F. A. Hewitt.

INSTRUMENTS

Before beginning his work, each student will be required to procure the instruments necessary for his use.

A separate list of instruments required may be had upon application to the Dean.

STUDENTS, 1919-20

NOTE.—All addresses in the following list are in San Francisco unless stated to be elsewhere. B, Berkeley; O, Oakland; A, Alameda; P, Piedmont. The superior figure, ¹, marks the names of students who were registered first half-year only; ², second half-year only.

Abbott, Clell E.	Ontario	Buckmann, Clinton Enoch	Visalia
1st yr-1252 First av		1st yr-1406 Sixth av	Snst 2011
Adler, Osias	San Diego	Burgess, Howard Harmon	Stockton
1st yr-841 Athens av, O		4th yr-100 Judah st	Snst 1272
Allen, F. Carlton	Upper Lake	Burke, Francis Paul	San Francisco
¹ 1st yr-1643 Lake st	Pac 7013	4th yr-1817 Fourth av	
Allen, Howard E.	San Francisco	Burson, Fortune Nelson	San Francisco
1st yr-1836 Eleventh av	Snst 756	2nd yr-171 Sixteenth av	Pac 798
Allen, Irving Robert	Berkeley	Carmichael, Frank P.	Marysville
2nd yr-1804 Grant st, B	Bkly 8929W	¹ 1st yr-340 Carl st	
Anderson, George H.	Coalinga	Casella, Frank G.	San Francisco
1st yr-809 Scott st		3rd yr-1248 Fifth av	Snst 721
Ardell, Olga Marian	San Francisco	Cassell, Irving I.	San Francisco
2nd yr-1462 Funston av	Snst 2181	¹ 1st yr-1788 Post st	
Austin, Eric	Sacramento	Cauch, Wilbur R.	San Jose
1st yr-358 Parnassus av		3rd yr-109 Carl st	
Bardwell, Augustine Rodaniche		Charmak, David Dewey	San Francisco
3rd yr-2409 Webster st	San Francisco	¹ 1st yr-1624 Sacramento st	
Barz, Frank Albert	San Francisco	Chenu, Aaron C.	Sacramento
3rd yr-186 Alpine ter	Park 5350	1st yr-1845 Fifth av	Snst 2408
Becker, Walter	Sacramento	Chess, James Martin	Albuquerque, N. M.
2nd yr-226 Edgewood av	Park 5111	1st yr-428 Belvedere st	
Bender, Robert E. Lee	San Francisco	Chilcote, Lois L.	Berkeley
1st yr-1226 Third av	Snst 2813	3rd yr-2619 Ashby av, B	Bkly 1252W
Berendsen, Ewald Adolph	San Francisco	Chuck, George Campbell	San Diego
3rd yr-756 Divisadero st	West 8029	2nd yr-1248 Fifth av	Snst 721
Bettencourt, Georg L.	Mendocino	Clayton, Lester B.	Chico
3rd yr-156 Beulah st		1st yr-525 Sixty-second st, O	
Bjornstrom, Harold Hjalmar	Sausalito	Clemons, Raynor Chelsie	San Miguel
2nd yr-88 Bonita st, S		1st yr-1022 Haight st	Mrkt 2722
Block, Thomas Ryan	Gridley	Close, Myron	San Francisco
4th yr-1242A Second av	Snst 689	1st yr-312 Scott st	Park 5859
Bolger, William M.	San Francisco	Cochrane, Claude Tony	San Francisco
1st yr-28 Cole at	Pac 4691	4th yr-200 Eureka st	Man 525
Bonner, George Edward	Fresno	Coffield, William Jesse	Napa
1st yr-856 Clayton st		1st yr-Y M C A	
Boyle, Leo F.	San Francisco	Conant, Ralph	Eureka
1st yr-2129 Turk st	West 6050	1st yr-783 Clayton st	
Boynton, John Colin	San Francisco	Cook, Lawrence Weston	San Francisco
1st yr-526 Twenty-fifth av		1st yr-1873 McAllister st	
Brandon, Baxter Brown	Flagstaff, Ariz.	Cook, Thomas W.	Berkeley
1st yr-2026 Forty-first av, O	Frwl 649W	1st yr-1807 Cedar st, B	
Breslin, William	San Francisco	Corlett, Ralph Walker	Riverside
1st yr-185 Third av	Pac 6044	1st yr-1851 Fifth av	
Britt, Vernon E.	San Francisco	Cosgrave, Vincent	Burlingame
1st yr-1115 Scott st	Flnr 3184	1st yr-517 Primrose rd, Burlingame	Bur 518R
Brown, Clements William	Clements		Escalon
4th yr-226 Edgewood av	Park 5111	Cosgriff, Richard J.	Krny 5500
Brown, Marvin B.	Oakland	1st yr-528 Kearny st	
1st yr-801 Alta Vista av, O	Pied 5128W	Cowan, Charles S.	Sacramento
Browne, James Homer	Etna Mills	1st yr-189 Parnassus av	
4th yr-226 Edgewood av	Park 5111	Crees, Robert Rudolph	San Francisco
Browning, Lester Edward	Point Reyes	4th yr-317 Twenty-ninth st	
² 1st yr-1248 Fifth av	Snst 721	Cuneo, Alfred Eddie	Bakersfield
		1st yr-1248 First av	

Dahlmann, Homer A.	Chico	Griffin, Frank P.	Fowler
1st yr-2258 Fulton st, B	Bkly 155W	1st yr-1253 Third av	Snat 741
Daneri, Andrew James	San Francisco	Hahn, Leroy Walter	Berkeley
1st yr-1055 Powell st	Dgls 4457	4th yr-2331 Roosevelt av, B	Bkly 7179W
Davies, Ellis Evans	Sacramento	Haley, John Mervyn	Berkeley
2nd yr-1248 Fifth av	Snat 721	4th yr-2316 Stewart st, B	Bkly 3599W
DeMarius, Charles Claude	Chico	Hannah, Edith Pearl	San Francisco
1st yr-732 Page st		2nd yr-1750 Sacramento st	Pspt 6397
Detner, George Thomas	San Francisco	Harrie, Edward Earl	Etna Mills
2nd yr-4283 Twenty-third st	Val 5225	2nd yr-226 Edgewood av	Park 5111
Doell, Harold N.	Oakland	Havens, Alfred	San Francisco
1st yr-366 Grand av, O	Oakd 7280	1st yr-800 Bosworth st	Man 3418
Donkin, Elbert Bessler	Berkeley	Haw, Charles Cranston	San Jose
2nd yr-2218 Dwight way, B	Bkly 3495J	1st yr-226 Edgewood av	Park 5111
Dorn, Bernice	San Francisco	Hayashi, Hideki	Sacramento
1st yr-562 Tenth av	Pac 5486	3rd yr-1551 Post st	West 3227
Dougherty, Samuel K.	Santa Rosa	Hendricks, Howard E.	San Francisco
1st yr-364 O'Farrell st	Pspt 582	B.S. 1906	
Dunn, Albert Lawrence	Long Beach	4th yr-4981 Seventeenth st	Mrkt 4854
1st yr-1051 Taylor st		Hewitt, Louis Arthur	Berkeley
DuPertuis, Charles B.	San Francisco	3rd yr-1248 Fifth av	Snat 721
1st yr-1350 Pine st	Pspt 1645	Hirota, Iwao	Los Angeles
Dustin, Murray J.	Stockton	1st yr-1526 Geary st	Fmr 792
1st yr-1024 Shrader st		Holmberg, Arthur Bernard	San Francisco
Erickson, Elwood Carl Romer	San Francisco	2nd yr-152 Park st	Man 5102
1st yr-358 Lisbon st	Rand 3051	Huberty, Linus Ambrose	Lodi
Eskeu, Elmer Walter	San Francisco	2nd yr-1248 Fifth av	Snat 721
1st yr-447 Thirty-fourth av	Pac 5850	Hughes, George Alfred	Alameda
Falor, Mae	Eureka	2nd yr-1804 Elm st, A	Ala 4189J
1st yr-156 Beulah st		Hurd, Rollin Edgar	Hoquim, Wn.
Farlinger, Clarence	Richmond	2nd yr-1248 Fifth av	Snat 721
1st yr-227 Second st, R		Inukal, Yoshiko	Oakland
Fitzgerald, Linus C.	Missoula, Mont.	2nd yr-474 Twenty-third st, O	Oakd 8207
1st yr-6200 Geary st	Pac 7418	Irons, Wesley G.	Richmond
Flagg, Clarence Roland	Berkeley	2nd yr-330 Eighth st, R	Rchd 473
3rd yr-1366 Eleventh av		January, John William	Vacaville
Fleming, Willard Corwin	Alameda	4th yr-226 Edgewood av	Park 5111
1st yr-1323 Santa Clara av, A		Jensen, Carroll	San Francisco
Foster, Herbert R.	Honolulu, T. H.	1st yr-1239 Ninth av	Snat 55
1st yr-1356 Post st	Frkn 2061	Jordan, Albert Edward	San Francisco
Fraher, Francis James	San Francisco	2nd yr-1442 Fifth av	Snat 738
3rd yr-4120 Twenty-sixth st	Man 4832	Jorgenson, Niels B.	Denmark
Francis, Norbert Henry	San Francisco	1st yr-1025 Shrader st	
1st yr-345 Capp st	Man 3300	Junck, Arthur M.	San Francisco
Frost, Donald A.	Willits	1st yr-3639 Seventeenth st	Mrkt 3625
1st yr-2622 Haste st, B		Karageorge, Evangelo Basil	San Francisco
Ginocchio, Andrew	San Francisco	3rd yr-1373 Fourth av	
1st yr-542 Eleventh av	Pac 7315	Kazanjan, Ardashes Arthur	Fowler
Giron, Hector	Guatemala City, Guatemala	4th yr-646 Clayton st	
1st yr-1114 Masonic av		Kenney, Daniel H.	Oakland
Gliebe, Francis James	San Francisco	1st yr-1410 Eighth av, O	Lkd 4431
1st yr-485A Third st	Grfd 1788	Kershaw, Robert Edgar	Los Gatos
Goodell, Fred Elmer	Stockton	1st yr-1718 Fell st	
1st yr-1345 Fifth av	Snat 2408	Kervin, Harold J.	San Francisco
Gorosh, Jacob	Vancouver, B. C.	1st yr-1144 Larkin st	Frkn 8051
1st yr-156 Beulah st		Keyes, Edith Gertrude	Fresno
Granger, Archibald	Oakland	1st yr-1040 Bush st	
1st yr-1225 E Twenty-fourth st, O		Knowles, Charles Beidenweg	Oakland
	Mer 967	2nd yr-226 Edgewood av	Park 5111
Greenberg, Abe	Stockton		
1st yr-532 Ashbury av	Mrkt 7336		

Koenigsberg, Charles Wesley	Oakland	Martin, Webster Hasbrouck	New York, N. Y.
2nd yr-323 Oakland av, O	Oakd 8045	2nd yr-226 Edgewood av	Park 5111
LaPlace, Marcel George	San Francisco	Mathewson, Joseph Edward	Yreka
4th yr-2531 Washington st	West 4573	4th yr-226 Edgewood av	Park 5111
Latapie, Jean Pierre	San Francisco	Mendelson, William	Petaluma
1st yr-2509 Lake st		1st yr-1160 Webster st	
Lee, Daniel	San Francisco	Monti, Ivo Romeo	San Francisco
1st yr-2259 Greene st	Flmr 2546	2nd yr-890 Broadway	
Lee, Fook Wing	Oakland	Moore, Howard H.	Stockton
3rd yr-265 Eighth st, O		1st yr-1271 Tenth av	
Levin, Philip	San Francisco	Morin, Hercule Cutler	San Francisco
*1st yr-1670 Fulton st	Flmr 477	1st yr-616 Baker st	West 9587
Leider, Solomon	San Francisco	Mortley, Walter S.	San Francisco
1st yr-572 Bosworth st	Valen 4375	3rd yr-897 Cortland av	Man 1648
Liang, James Fook	Fresno	Nagle, Hilton Alexander	Nelson, B. C.
1st yr-1012 Washington st	China 1246	1st yr-1248 First av	
Lincoln, Lloyd	Oakland	Nasser, Henry Walter	San Francisco
3rd yr-1394 Eighth st, O	Lkcd 1009	2nd yr-3719 Sixteenth st	Mkrt 9428
Lloyd, Arturo Leonard	San Francisco	Nathan, Jules Morris	Redding
1st yr-1270 Plymouth av		3rd yr-155 Belvedere st	Park 5423
Logan, James	Modesto	Newton, Robert Emmett	Sacramento
3rd yr-1248 Fifth av	Snst 721	2nd yr-50 Parnassus av	
Lorenz, Joseph Henry	Redding	Ney, Colman A.	Valejo
3rd yr-458 Frederick st	Park 7154	1st yr-263 Central av	Park 812
Lozey, Oscar Irvin	Meridian	Nuttman, Louis Charles	San Francisco
2nd yr-1345 Fifth av	Snst 2408	1st yr-869 Guerero st	
Love, Edward Lewis	Antioch	O'Connell, Aloysius John	Hollister
3rd yr-226 Edgewood av	Park 5111	3d yr-2348A Fulton st	
Lumsden, Robert M.	San Francisco	O'Conner, Charles Aloysius	San Francisco
1st yr-783 Clayton st	Park 6960	2nd yr-341 Frederick st	
Lux, Eleanor Marie	Berkeley	Paulamier, Emma Otella	Alameda
1st yr-1940 Haste st, B	Bkly 253	3rd yr-4 Portsmouth rd, A	
Lyman, Theron James	Stockton	Parkinson, Lawrence	Berkeley
1st yr-135 Carl st		1st yr-2711 Fulton st, B	Bkly 860J
McCord, Edwin James	Berkeley	Parraga, Frank Richard	San Jose, Costa Rica
2nd yr-69 Domingo av, B	Bkly 4272W	2nd yr-1114 Masonic av	
McGee, George F.	San Francisco	Parry, Oswald	Redlands
1st yr-216 Fourth av	Pac 4825	1st yr-1345 Fifth av	Snst 2408
McGovern, William Palmer	Tacoma, Wn.	Peck, Max	Russia
3rd yr-1345 Fifth av	Snst 2408	4th yr-1529 Steiner st	
McGuinness, Albert Leo	San Francisco	Peterson, Warren Carl	Oakland
2nd yr-1133 Geary st	Frkn 7116	2nd yr-1200 E Twenty-fourth st, O	Mer 2964
McKenzie, Malcolm M.	Oakland	Pohlman, Salem Camilo	Santa Rosa
1st yr-575 Seventeenth av		2nd yr-10 Judah st	Snst 1673
Mackler, Hyman	Willows	Poling, Gary E.	Modesto
1st yr-2065 Bush st		1st yr-814 Cole st	
McMillan, Stanley	Santa Cruz	Power, Francis John	Valejo
2nd yr-1333 Fifth av	Snst 747	2nd yr-1333 Fifth av	Snst 747
Macy, Earl T.	Coalinga	Pritchard, Fred	San Francisco
1st yr-809 Scott st		1st yr-50 Irving st	Snst 620
Mansfield, John H.	San Francisco	Purser, Louis M.	San Francisco
*1st yr-2590 Pine st		1st yr-43 Clifford ter	Park 5775
Manuck, Abe	El Verano	Ragan, Walter J.	San Francisco
1st yr-732 Eighth av	Pac 7548	*1s yr-51 Hillway av	Snst 42
Marsh, Norman Charles	San Francisco	Redd, Joseph William	Taft
*1st yr-2152 Broderick st	Flmr 3587	*1st yr-2229 Channing way, B	
Marshall, Dealbert P.	Seattle, Wn.		Bkly 1221J
1st yr-155 Oak st		Reilly, Phillip Aloysius	San Francisco
Martin, Mabel Emeline	Watsonville	3d yr-71 Coleridge st	
3d yr-139 Hugo st	Snst 1670		
Martin, Mary Katherine	Watsonville		
3d yr-139 Hugo st	Snst 1670		

Reynolds, Lloyd Berkeley	Auburn	Stabler, Chris E.	Redding
1st yr-506 Ashbury av	Park 7092	1st yr-3155 Scott st	
Reynolds, Wallace McKinley	Upper Lake	Steadman, Eugene	Oroville
1st yr-1231 Fourth av	Snst 3456	1st yr-114 Broderick st	
Ridenour, Irving	Stockton	Steffan, Everett F.	Oakland
2nd yr-1264 Second av	Snst 1917	1st yr-3652 Foothill blvd,	O Frvl 1914W
Robinson, Louis	San Francisco	Stein, Sanford Jacques	San Francisco
2nd yr-1445 Oak st		4th yr-3410 Geary st	Pac 2778
Robinson, Wilson E.	Sacramento	Storm, Ralph	Salinas
1st yr-739 Ashbury av		1st yr-1345 Fifth av	Snst 2408
Robles, Lolotte Delfina	Quezaltenango, Guatemala	Sullivan, Gerald Xavier	San Francisco
1st yr-2649 Clay st		2nd yr-4442 Twentieth st	Msn 4310
Rockwell, Jason C.	San Francisco	Sullivan, John E.	San Francisco
1st yr-503 Franklin st	Mkt 4374	1st yr-645 Cole st	Park 7077
Romero, Bertha	Berkeley	Sweet, Ben Franklin	Fresno
1st yr-1323 Bonita av, B		3rd yr-746 Shrader st	
Rosenweig, Joseph	San Francisco	Teale, Byron	Riverside
1st yr-566 Seventh av	Pac 7799	1st yr-1851 Fifth av	
Rothenberg, Edward	San Francisco	Thatcher, Joseph Allyn	San Francisco
1st yr-1127 Jackson st	Frkn 5832	3rd yr-1254 Eleventh av	Snst 1510
Russell, John Ray	Santa Rosa	Toffemire, Benjamin Franklin	Placerville
1st yr-226 Edgewood av	Park 5111	3rd yr-1248 Fifth av	Snst 721
Ryan, Harold	Oakland	Toft, George William	Mountain View
3rd yr-1511 Ninth st, O		*1st yr-907 Haight st	
Saxby, J. Bert	Santa Barbara	Tomasulo, Titus	San Francisco
1st yr-1345 Fifth av	Snst 2408	*1st yr-1709 Stockton st	
Schraft, Robert	San Francisco	Trachler, Frank Arthur	San Francisco
1st yr-158 Tiffany av	Valen 3169	*3rd yr-331 Capp st	Msn 5835
Schwartz, Alexander	San Francisco	Tremaine, Lloyd	Gilroy
1st yr-1627 McAllister st	West 3369	2nd yr-1345 Fifth av	Snst 2408
Seaman, Edward Milo, Jr.	Berkeley	Umhalt, Albert Christopher	San Francisco
4th yr-1923 Henry st, B	Bkly 4692W	3rd yr-253 Diamond st	Valen 2348
Seelinger, Robert John	Winnemucca, Nev.	Van Buuren, John T. G.	Batavia, Java
1st yr-1442 Fifth av	Snst 733	*1st yr-2001 Alston way, B	Bky 6710
Shaffer, Henry J.	Yreka	Van Deventer, Cyrus E.	Redlands
1st yr-1248 Fifth av	Snst 721	2nd yr-889 Clayton st	Mkt 2841
Shafor, Carl G.	Berkeley	Vitous, Clinton Robert	Puyallup, Wn.
1st yr-1314 Bayview pl, B	Bkly 6025W	3d yr-458 Frederick st	Park 7154
Shone, Lloyd B.	Palo Alto	Warren, Irvin Russell	Juneau, Alaska
1st yr-381 Parnassus av		3rd yr-226 Edgewood av	Park 5111
Shelton, Harold Edgar	Valejo	Weber, Arnold	San Francisco
1st yr-226 Edgewood av	Park 5111	1st yr-1542 Jackson st	Frkn 5605
Skinner, Clem Williamson	Oakland	Weinman, John George	San Francisco
3rd yr-5727 Dover st	Pied 373	1st yr-384 Eureka st	Msn 2974
Smith, Earl Joseph	San Francisco	Westbay Clayton	Stockton
1st yr-257 Collingwood st	Msn 9184	*4th yr-226 Edgewood av	Park 5111
Smith, Hugh Ian	Fortuna	Wheeler J. Hugh	St. Louis Mo.
3rd yr-189 Parnassus av		1st yr-151 Belvedere st	Park 1818
Smith, Felix Austin	Ahwahnee	Williams George A.	Berkeley
2nd yr-269 Parnassus av		1st yr-652 Fell st	Mkt 7132
Smith, Raymond Eisenhower	Glendine, Mont.	Wollitz, Alfred E.	Oakland
1st yr-1414 Post st	West 5900	1st yr-1935 Webster st, O	Oakd 284
Smith, Robert	New Orleans, La.	Yoshino, Shotano	San Francisco
*1st yr-1276 Eighth av	Snst 1061	3rd yr-1534 Geary st	
Smith, Vern V.	Santa Rosa	Young, Floyd A.	Oakland
1st yr-1248 Fifth av	Snst 721	1st yr-1889 Jackson st, O	Oakd 2234
Soules, Guilford Harrison	Seattle, Wn.	Young, Ray Allen	Valejo
3rd yr-1345 Fifth av	Snst 2408	1st yr-Y M C A	
Spridgen, William Austin	Petaluma	Zales, Joseph Edward	Oakland
2nd yr-1248 Fifth av	Snst 721	*4th yr-1910 Forty-sixth av, O	Frvl 4705
		Zumwalt, A. James	Marysville
		1st yr-226 Edgewood av	Park 5111

REGISTER—PART XIV

**ANNOUNCEMENT OF THE GRADUATE
DIVISION**

APRIL, 1920

University of California Bulletin

THIRD SERIES. Vol. XIII, No. 11

ANNOUNCEMENT OF THE GRADUATE DIVISION

**INCLUDING REQUIREMENTS FOR HIGHER DEGREES
AND FOR THE RECOMMENDATION FOR THE
HIGH SCHOOL TEACHER'S
CERTIFICATE**

APRIL, 1920

**UNIVERSITY OF CALIFORNIA PRESS
• BERKELEY**

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GRADUATE COUNCIL

The work of the Graduate Division is supervised by a committee or the Academic Senate known as the Graduate Council. For the year 1919-20 this committee is constituted as follows:

Ex-Officio Members

- *DAVID PRESCOTT BARROWS, President of the University.
WILLIAM CARRY JONES, Dean of the Graduate Division (first half-year).
ARMIN OTTO LEUSCHNER, Dean of the Graduate Division (second half-year).
CHARLES MILLS GATLEY, Dean of the Faculties (first half-year).
JOHN CAMPBELL MERRIAM, Dean of the Faculties (second half-year).
WALTER MORRIS HART, Dean of the Summer Session.
JAMES SUTTON, Recorder of the Faculties.

Appointed Members

- G. P. ADAMS, 441 Wheeler Hall; Southdown av. and Montrose pl.
A. F. LANGE, 315 University Library; 2601 LeConte av.
A. O. LEUSCHNER, 3 Students' Observatory; 1816 Scenic av.
W. A. MERRILL, 436 Wheeler Hall; 2609 College av.
R. SCHREVILL, 427 Wheeler Hall; 1308 Tamalpais rd.
E. P. LEWIS, 116 South Hall; 27 Panoramic way.
J. C. MERRIAM, 204 Bacon Hall; 2401 Bowditch st.
D. P. BARROWS, 217 California Hall; President's House.
C. B. LIPMAN, 201 Budd Hall; Faculty Club.
W. L. JEPSON, 6 Botany Building; 2714 Benvenue av.
E. O'NEILL, 114 Gilman Hall; 2522 College av.
H. M. EVANS, 17 Anatomy Building, 2617 College av.
G. Y. RUSK, Second and Parnassus av., San Francisco.
L. J. PANTOW, 30 Wheeler Hall; 722 Arlington av.
C. A. KOPOLD, 208 East Hall; 2616 Etna st.
H. K. SCHILLING, 401 Wheeler Hall; 2316 LeConte av.
F. H. PROBERT, 132 Hearst Memorial Mining Bldg., 28 Oakvale av.
M. W. HASKELL, 421 Wheeler Hall; 2019 Durant av.
G. R. NOYES, 419 University Library; 1434 Greenwood ter.
B. P. KURTZ, 409 University Library; 59 Santa Clara av., Oakland.
T. C. BURNETT, 114½ Physiological Laboratory; Shattuck Hotel.
W. R. BLOOR, 209 Physiological Laboratory; 1540 Hawthorne ter.

*From January, 1920.

GRADUATE DIVISION

Requests for information regarding graduate study in special subjects may be addressed to the following officers:

*Advisers***Agriculture:**

Agricultural Chemistry

J. S. Burd

9 Fertilizer Control Building

Agricultural Education

F. L. Griffin

303 Budd Hall

Agronomy

J. W. Gilmore

309 Hilgard Hall

Animal Husbandry

G. H. True

107 Agriculture Hall

Citriculture

J. E. Coit

339 Hilgard Hall

Dairy Industry

C. L. Roadhouse

University Farm, Davis

Entomology

C. W. Woodworth

200 Agriculture Hall

Farm Management

R. L. Adams

309 Hilgard Hall

Farm Mechanics

L. J. Fletcher

University Farm, Davis

Forestry

W. Mulford

305 Hilgard Hall

Genetics

E. B. Babcock

314 Hilgard Hall

Graduate School of Tropical

Agriculture and Citrus

Experiment Station

J. T. Barrett

Riverside

Landscape Gardening and

Floriculture

J. W. Gregg

304 Agriculture Hall

Nutrition

M. E. Jaffa

107 Budd Hall

Olericulture

University Farm, Davis

Plant Pathology

W. T. Horne

210 Agriculture Hall

Pomology

J. C. Whitten

331 Hilgard Hall

Poultry Husbandry

J. E. Dougherty

University Farm, Davis

Rural Institutions

E. Mead

100 Agriculture Hall

Soils and Fertilizers

C. B. Lipman

201 Budd Hall

Veterinary Science

C. M. Haring

101 Budd Hall

Viticulture and Enology

F. T. Bioletti

336 Hilgard Hall

***Anatomy**

H. M. Evans

17 Anatomy Building

Anthropology

A. L. Kroeber

6 Museum of Anthropology

Architecture

J. G. Howard

Architecture Building

Astronomy:

Berkeley Astronomical De-

partment

A. O. Leuschner

3 Observatory

Lick Astronomical Depart-

ment

W. W. Campbell

Mount Hamilton

Biochemistry

W. R. Bloor

209 Physiological Laboratory

Biological Research

W. E. Ritter

Scripps Institution for Biological

Research, La Jolla.

Botany

T. H. Goodspeed

412 Chemistry Annex

Celtic

W. W. Lyman, Jr.

412 Wheeler Hall

Chemistry

G. N. Lewis

110 Gilman Hall

Civil Engineering

C. Derleth, Jr.

204 Civil Engineering Building

Classical Archaeology

O. M. Washburn

478 Wheeler Hall

Drawing and Art

H. Kower

305 Drawing Building

Economics

S. Daggett

22 Wheeler Hall

*With reference to medical course see "Medicine."

Advisers—(Continued)

Education	A. F. Lange	315 Library
English	A. G. Brodeur	410 Wheeler Hall
Geography	R. S. Holway	8 Bacon Hall
Geology and Mineralogy	{ A. C. Lawson or G. D. Louderback	107 Bacon Hall 103 Bacon Hall
German	H. K. Schilling	401 Wheeler Hall
Greek	G. M. Calhoun	474 Wheeler Hall
History	W. A. Morris	30 Wheeler Hall
Home Economics:		
Household Art	Miss Mary F. Patterson	300 Home Economics Building
Household Science	Mrs. Agnes Fay Morgan	206 Home Economics Building
Hygiene	R. T. Legge	Infirmary
Irrigation	B. A. Etcheverry	307 Agriculture Hall
Jurisprudence	Wm. C. Jones	212 Boalt Hall
Latin	W. A. Merrill	436 Wheeler Hall
Mathematics	{ J. H. McDonald (Higher Degrees) or F. Cajori	456 Wheeler Hall 456 Wheeler Hall (Teacher's Recommendations)
Mechanical and Electrical Engineering	C. L. Cory	33 Mechanics Building
Medicine	{ W. I. Terry or H. M. Evans	U. C. Medical School, Second and Parnassus avs., San Francisco 17 Anatomy Building
Mining	F. H. Probert	131-2 Hearst Memorial Mining Bldg.
Music	E. G. Stricklen	5 Music Building
Nutrition	M. E. Jaffa	107 Budd Hall
Oriental Languages	E. T. Williams	453 Wheeler Hall
Paleontology	J. C. Merriam	204 Bacon Hall
*Pathology and Bacteriology	F. P. Gay	1 Hygiene and Pathology Building
Philosophy	G. P. Adams	441 Wheeler Hall
Physical Education for Men	F. L. Kleeberger	Harmon Gymnasium
Physical Education for Women	Mrs R. Elliott	1 Hearst Hall
Physics	E. P. Lewis	116 South Hall
Physiology	R. Gesell	202 Physiological Laboratory
Political Science	T. H. Reed	431 Wheeler Hall
Psychology	{ G. M. Stratton or Warner Brown	Philosophy Building Philosophy Building
Public Health	R. T. Legge	Infirmary
Public Speaking	M. C. Flaherty	422 Wheeler Hall
Research Medicine	G. H. Whipple	Hooper Foundation for Medical Research, Second and Parnassus avs.- San Francisco
Romanic Languages:		
French	R. T. Holbrook	426 Wheeler Hall
Italian	R. Schevill and R. T. Holbrook	
Spanish	R. Schevill	427 Wheeler Hall
Sanskrit	A. W. Ryder	331 Wheeler Hall
Semitic Languages	W. Popper	421 Library
Slavic Languages	G. R. Noyes	419 Library
Zoology	S. J. Holmes	214 East Hall

*With reference to medical course see "Medicine."

CALENDAR

Stated meetings of the Regents are held at 2 p.m. on the second Tuesday of each month and on the day preceding Commencement Day, in May of each year, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The July meeting is usually dispensed with. The Finance Committee meets at 11 a.m. on the first and third Tuesdays of each month, and the Committee on Grounds and Buildings at 2:30 p.m. on the second Friday before the second Tuesday of each month.

University meetings occur on alternate Friday mornings during the academic year at 11:10 o'clock.

1920

Jan. 6, Tuesday	} Matriculation examinations.
Jan. 10, Saturday	
Jan. 12, Monday	Registration of students for the second half-year.
Jan. 13, Tuesday	Instruction begins.
Mar. 23, Tuesday	Charter Day.
April 26, Monday	} Final examinations.
May 8, Saturday	
May 12, Wednesday	The Fifty-seventh Commencement.
May 10, Monday	} Inter-Session.
June 19, Saturday	
June 21, Monday	} Summer Sessions at Berkeley and Los Angeles.
July 31, Saturday	
Aug. 5, Thursday	} Matriculation examinations.
Aug. 10, Tuesday	
Aug. 13, Friday	} Registration of new students, graduate and undergraduate.
Aug. 14, Saturday	
Aug. 16, Monday	Registration of old students.
Aug. 17, Tuesday	Instruction begins.
Nov. 25, Thursday	} Thanksgiving recess.
Nov. 27, Saturday	
Dec. 7, Tuesday	} Final examinations.
Dec. 18, Saturday	
Dec. 20, Monday	} Christmas recess.
Jan. 8, Saturday	

1921

Jan. 4, Tuesday	} Matriculation examinations.
Jan. 8, Saturday	
Jan. 10, Monday	Registration of students for the second half-year.
Jan. 11, Tuesday	Instruction begins.
Mar. 23, Wednesday	Charter Day.
April 25, Monday	} Final examinations.
May 7, Saturday	
May 11, Wednesday	The Fifty-eighth Commencement.

THE UNIVERSITY

THE UNIVERSITY COMPRISES THE FOLLOWING COLLEGES AND DEPARTMENTS

I. IN BERKELEY

The Colleges of

Letters and Science,
Commerce,

Agriculture (including the courses at Berkeley, the University Farm at Davis, the Graduate School of Tropical Agriculture at Riverside, and the United States Agricultural Experiment Station, which includes stations at Berkeley and Davis, the forestry stations at Chico and Santa Monica, the Citrus Experiment Station at Riverside, the Imperial Valley Experiment Station near Meloland, "Whitaker's Forest" in Tulare County, and the M. Theo. Kearney Experiment Station at Kearney Park, Fresno County),

Mechanics,
Mining,
Civil Engineering,
Chemistry.

The Schools of

Architecture,
Education,
Jurisprudence,
Medicine (first and second years).

The University Extension Division (offering instruction wherever classes can be formed, or anywhere in California by correspondence, providing lectures, recitals, motion pictures and other material for visual instruction, etc., giving guidance and suggestion to debating clubs, and offering aid to communities through its Bureau of Information and Social Welfare).

The California Museum of Vertebrate Zoology.

DEPARTMENTS OF INSTRUCTION IN THE COLLEGES AT BERKELEY

Agriculture (including Agricultural Education, Agronomy, Pomology, Landscape Gardening and Floriculture, Viticulture, Enology, Soils and Fertilizers, Agricultural Chemistry, Nutrition, Citriculture, Genetics, Olericulture, Experimental Irrigation, Animal Husbandry, Poultry Husbandry, Veterinary Science, Dairy Industry, Farm Mechanics, Entomology, Forestry,

Horticulture, Parasitology, Plant Pathology, and Rural Institutions), Anatomy, Anthropology, Architecture, Astronomy, Biochemistry and Pharmacology, Botany, Celtic, Chemistry, Civil Engineering, Drawing and Art, Economics, Education, English, French, Geography, Geology, German, Greek, History, Home Economics, Hygiene, Irrigation, Italian, Jurisprudence, Latin, Library Science, Mathematics, Mechanical and Electrical Engineering, Military Science and Tactics, Mineralogy, Mining and Metallurgy, Music, Oriental Languages, Palaeontology, Pathology and Bacteriology, Philosophy and Psychology, Physical Education, Physics, Physiology, Political Science, Public Speaking, Sanskrit, Semitic Languages, Slavic Languages, Spanish, Zoology.

II. AT MOUNT HAMILTON

The Lick Astronomical Department (Lick Observatory).

III. AT SANTIAGO, CHILE

The D. O. Mills Observatory, a branch of the Lick Observatory.

IV. IN SAN FRANCISCO

California School of Fine Arts,
Hastings College of the Law,
Medical School (third, fourth, and fifth years, including the University Hospital),
The George Williams Hooper Foundation for Medical Research,
College of Dentistry,
California College of Pharmacy,
The Museum of Anthropology, Archaeology, and Art.

V. IN LOS ANGELES

Los Angeles Medical Department, graduate instruction only.
Southern Branch of the University.

VI. AT DAVIS

The University Farm School and college instruction and research in Agronomy, Animal Husbandry, Dairy Industry, Farm Mechanics, Olericulture, Poultry Husbandry, Pomology, Soils, and Veterinary Science.

VII. AT RIVERSIDE

The Graduate School of Tropical Agriculture.

VIII. AT LA JOLLA

The Scripps Institution for Biological Research.

IX. AT SWANTON

The Summer School of Surveying.

ORGANIZATION

The University of California is an integral part of the public educational system of the State. As such it completes the work begun in the public schools. Through aid from the State and the United States, and by private gifts, it furnishes facilities for instruction in literature and in science, and in the professions of art, law, medicine, dentistry, and pharmacy. In the colleges of Letters and Science, Commerce, Agriculture, Mechanics, Mining, Civil Engineering, and Chemistry these privileges are offered without charge for tuition to all residents of California who are qualified for admission. Non-residents of California are charged a tuition fee of ten dollars each half-year. In the professional colleges, except that of law, tuition fees are charged. The instruction in all the colleges is open to all qualified persons, without distinction of sex. The Constitution of the State provides for the perpetuation of the University, with all its departments.

ADMINISTRATION

The government of the University of California is entrusted to a corporation styled THE REGENTS OF THE UNIVERSITY OF CALIFORNIA, consisting of the Governor, the Lieutenant-Governor, the Speaker of the Assembly, the State Superintendent of Public Instruction, the President of the State Board of Agriculture, the President of the Mechanics' Institute of San Francisco, and the President of the University, as members *ex officio*, and sixteen other regents appointed by the Governor and approved by the Senate. To this corporation the State has committed the administration of the University, including management of the finances, care of the property, appointment of teachers, and determination of the internal organization in all particulars not fixed by law.

The instruction and government of the students are entrusted to the FACULTIES OF THE SEVERAL COLLEGES and to the ACADEMIC SENATE.

The Faculty of each college consists of the President of the University and those professors and instructors, and only those, whose departments are represented in it by required or elective studies.

The Academic Senate consists of the members of the Faculties and the instructors of the University, the President and professors alone having the right to vote in its transactions. It holds regular meetings twice a year, and is created for the purpose of conducting the general administration of the University, memorializing the Regents, regulating in the first instance the general and special courses of instruction, and receiving and determining all appeals from acts of discipline enforced

by the Faculty of any college; and it exercises such other powers as the Regents may confer upon it.

In all matters not expressly delegated to the Senate or to the several Faculties, the Regents govern, either directly or through the President or Secretary.

SITE AND CLIMATE OF BERKELEY

The principal seat of the University is at Berkeley, a city of about 67,000 inhabitants, on the eastern shore of San Francisco Bay directly opposite the Golden Gate. It is thirty-five minutes' ride by train and ferry from San Francisco, and twenty-five minutes' ride by electric car from the business center of Oakland. The site of the University comprises about five hundred and thirty acres, rising at first in gentle and then in bolder slopes from a height of about two hundred feet above the sea level to one of about thirteen hundred feet. It has a superb outlook over the bay and city of San Francisco, the neighboring plains and mountains, the ocean, and the Golden Gate.

Berkeley is a healthful locality; the slope of the town site makes perfect drainage possible.

The climate of Berkeley is one of great uniformity and is exceptionally well suited for university work throughout the year. The summers are cool, making it possible to begin the academic year earlier than in Eastern universities, and thus divide it at the Christmas holidays into two equal half-years. Commencement is usually held about the middle of May.

Extremes of heat and cold are unknown. The average temperatures are about 59 degrees in summer and 48 degrees in winter. Temperatures as high as 85 degrees are of infrequent occurrence and never last more than a few hours. Very low temperatures do not occur; within the last twenty-five years 24.9 degrees was the lowest temperature recorded at the University.

The marked rainy season begins in November and continues through March; although rains may occur in all months except July and August. In the winter, rain falls on three or four days in succession, after which a week or more of fine weather follows. On the average, even in winter, less than a third of the whole number of days are rainy. The annual rainfall at Berkeley is about twenty-seven inches.

The prevailing summer wind is from the southwest off the Pacific Ocean. It is cool and damp, seldom attaining a velocity of over fifteen miles an hour. During the winter months easterly winds are common, although a considerable portion of the winds are westerly throughout the year. In winter there is occasionally a strong, cool northwest wind, or a strong north or northeast wind which is dry and warm.

LIVING ACCOMMODATIONS

The Cost of Board and Lodgings (1) in boarding houses in or near Berkeley is \$35 to \$50 a month; (2) in fraternities and clubs from \$35 to \$45 a month. (3) For students living in housekeeping rooms and "boarding themselves" the expenses may be reduced as low as \$20 to \$25 a month, but this plan of living is not generally recommended. (4) The hours of recitation are such that students may commute from their homes in Oakland and San Francisco. (5) Families or groups of mature students who wish to rent furnished houses or apartments should apply to the local real estate agents. Rents near the campus for housing eight or more persons range from \$65 up, unfurnished. A two-room furnished apartment, with bath and kitchenette, janitor service, heat and house laundry rents from \$50 up. (A list of real estate agents will be supplied on request.)

The University has no dormitories. Lists of boarding places approved by the University authorities are published at the opening of every session, one list for men and another for women. No freshman woman is permitted to complete her registration unless her boarding place is first approved by the Dean of Women.

Lists of approved boarding places and further advice concerning living accommodations may be obtained at the office of the Dean of Women, 205 California Hall, and at the office of the Dean of the Undergraduate Division, 207 California Hall.

EMPLOYMENT

Opportunities for Self-Support.—Men students desiring employment should apply for information at the Employment Bureau.

The Employment Bureau acts only as an agent for the purpose of bringing together employers and students desiring work. It does not undertake to make arrangements with respect to remuneration.

Women students desiring employment should apply at the office of the Dean of Women, 205 California Hall, 9 a.m.—12 m. daily. Board and lodging can often be obtained in exchange for three or four hours of household work daily. Opportunities also exist for obtaining employment, on an hourly basis, in the following fields: typewriting and stenography, clerical work, tutoring, telephone service, housework, care of children, general manual labor, etc. A student qualified to do draughting, computing and other technical work can occasionally find employment on a more remunerative basis than in these fields.

Self-supporting students are respected. With reasonable diligence a student can devote from twelve to twenty-five hours per week to outside work without seriously interfering with college work of from twelve to sixteen units (involving thirty-six to forty-eight hours per week). It should always be borne in mind, however, by students seeking employment that not every kind nor every amount of outside work is entirely compatible with the student's main purpose at the University, namely, his education. Only in rare instances can a student be entirely self-supporting.

The Young Men's Christian Association acts as a bureau of information concerning boarding places and opportunities for remunerative employment.

Applicants for employment in teaching or tutoring should apply at the office of the Appointment Secretary, 102 California Hall. These agencies, however, can do little for students who are not actually on the ground to negotiate for themselves. It is usually so difficult for a stranger to secure remunerative employment from the start that, in general, no one should come to Berkeley expecting to become self-supporting through the university course, without having on hand at the beginning sufficient funds to cover the expenses of the first half-year.

EXPENSES OF STUDENTS

For cost of board and lodgings, see above.

Tuition in the academic colleges at Berkeley and tuition at the Lick Observatory is free to residents of the state. Non-residents of California are charged a tuition fee of ten dollars each half-year. Tuition in the Medical School and in the College of Dentistry, both for residents and non-residents, is \$150 a year. Students in Public Health, Curricula A and B, are subject to a fee of \$150 for the year spent in the Medical School; students in Curriculum C are subject to the fee of \$75 during the half-year in the Medical School (second half-year of the fifth year). The following incidental expenses are to be met:

Gymnasium and Infirmary Fees.—The gymnasium fee is \$2 per half-year, and the infirmary fee is \$3 per half-year; both are payable by every student, graduate or undergraduate, before his study-card is filed. These fees entitle students to gymnasium and hospital privileges, and are not remitted, in whole or in part, for those who may not desire to make use of these privileges. Gymnasium privileges comprise, besides the use of the gymnasium, tennis courts, swimming pool, baths, lockers, washrooms, etc. The infirmary fee entitles students, in case of illness to hospital care (cost of surgical operations not included) or dispensary treatment. One-

half of the amount of these fees is returned to students who leave the University during the first half-year before September 1, or during the second half-year before February 1.

A *law library fee* of \$12.50 per half-year is payable at the time of registration by every student registering in more than one professional course in law.

Laboratory Fees.—In the laboratories a charge is made for materials actually used. This charge, for students in the elementary laboratories, amounts to from \$5 to \$30 per annum.

Other expenses are: Books and stationery, from \$15 to \$25 per annum. All students are eligible to membership in the Associated Students of the University of California. The cost of a membership card is about \$5 per year. The card entitles the holder to participation in the affairs of the Associated Students; a free subscription to the *Daily Californian*; free admission to all athletic contests held on the campus under the jurisdiction of the Associated Students with the exception of final intercollegiate contests, and membership in the Associated Students' Store with the privilege of rebates on all purchases.

The *ordinary yearly expenses* of a student in the academic departments, including personal expenses, would probably be at least \$650.

UNIVERSITY EXTENSION

The Extension Division serves persons who seek training and information but who cannot attend the University. It is a means of extending to the people of California, so far as practicable, the usefulness of the University. It aims to help as many citizens as possible to utilize their leisure and to meet more fully their civic responsibilities. It aims to help official and voluntary groups to make their communities stable, prosperous and progressive. It aims to promote sound public opinion in support of American institutions and ideals.

The work covers two fields of activity, instruction and public service, and is carried on through six departments.

I. INSTRUCTION

1. The Department of Class Instruction organizes and conducts classes in cities and towns wherever a sufficient number of people can be secured who wish to study the same subject. Instruction is offered in the languages, literature, public speaking, mathematics, political science, business branches, economics, engineering, technical branches, and other subjects.

2. The Department of Correspondence Instruction offers instruction by mail in the languages, in literature, mathematics, music, drawing, educa-

tion, political science, engineering, geography, etc. Courses may begin at any time.

3. The Department of Lectures provides lectures singly or in series for any committee, club, organization, or community in the state that will make the necessary arrangements for their delivery.

II. PUBLIC SERVICE

1. The Department of Municipal Reference is a clearing house for inquiries concerning municipal government and administration. It is allied with the League of California Municipalities.

2. The Department of General Information undertakes to answer inquiries of whatever nature, addressed to it, utilizing for this purpose the resources of the University.

3. The Department of Visual Instruction circulates stereopticon slides and motion picture reels. These cover many phases of educational work. They are sent in rotation through the schools of the state and are studied by public schools as part of the curriculum and by parents and citizens as a feature of community service.

Complete information with regard to University Extension, including methods of organizing classes and lecture centers, fees, and the granting of credit toward a university degree, will be sent on application. Address the Extension Division, University of California, Berkeley.

Credit for Extension courses cannot be applied toward schedules for higher degrees.

APPOINTMENT REGISTRY

In January, 1898, the Regents of the University established, in the President's Office, a Registry for teachers and others who desire the coöperation of the University in securing employment. The aim is to obtain complete information in regard to all University candidates for the teaching profession or for other callings. A Secretary is in charge of the lists of applicants, which include the names of many who have already won success in their professions, or in the business world. The Secretary secures evidence in regard to the scholarship, experience, and personal qualifications of each candidate, and on the basis of this information answers inquiries from appointing authorities.

The purpose is to secure such information as will enable the University to name the best available person for a given position. The practice of giving written recommendations to students, to be used at their own discretion, has been discontinued. Reports from instructors are filed in the President's Office. Copies of these reports will be mailed to school officers, or to professional or business men, at their request, or at the

request of the student concerned. But the President reserves the right of refusing to extend the coöperation of the University to students when they apply for positions for which they are manifestly unfit. Official recommendations for positions are made only on request of those in authority. Letters requesting such recommendations should state explicitly the subjects to be taught, or the work to be done, the salary paid per year, and the time when the engagement begins. Prompt answer will be made to such letters throughout the summer vacation as well as during the university year. The Secretary will consult any member of the faculty whose advice is especially desired. There are no fees for the services of this office.

Communications should be addressed to the Appointment Secretary, University of California, Berkeley.

SUMMER SESSION

The Summer Session of six weeks is designed for teachers and other persons who are unable to attend the University during the fall and spring sessions. There are at present no formal entrance requirements, except that applicants must be persons of good moral character and must be considered by the faculty to be of sufficient maturity and intelligence to profit by attendance upon the exercises of the session. The courses of instruction are mainly of university grade, and credit toward university degrees may be given to attendants who comply with such conditions of work and examinations as may be imposed by the instructors in charge.

The tuition fee is \$20, regardless of the number of courses taken.

An Announcement of the Summer Session is issued in April of each year and may be obtained by addressing the Dean of the Summer Session, Berkeley, California.

In addition to the usual session at the University in Berkeley a Southern Division of the Summer Session has been established and will be conducted at the Normal School building in Los Angeles.

INTERSESSION

The Interession of six weeks between the end of the spring semester and the beginning of the Summer Session (in 1920, from May 10 to June 19) is conducted especially for graduate students who desire to pursue special research for an uninterrupted period of twelve weeks during the summer. A graduate student may thus complete 12 units toward a higher degree, and one semester of residence.

A list of courses offered during the Interession will be found in the Announcement of the Summer Session.

INFIRMARY

In return for the Infirmary fee, each student is entitled to consultation and medical and hospital care at the Infirmary, on the campus. The daily average of dispensary consultations and treatments exceeds one hundred and fifty. Full hospital care is given in case of serious illness. There is no charge, beyond the Infirmary fee, for ordinary medical or hospital service; but if a surgical operation or a special nurse be required, the cost must be borne by the patient. A small hourly charge is made for dental service.

FELLOWSHIPS AND GRADUATE SCHOLARSHIPS FOR THE
ACADEMIC YEAR 1920-21

Graduate scholarships and fellowships are awarded as a mark of honor, on the basis of scholarship—not of need, and the holders thereof are expected to devote all their time to graduate study and research in the University.

Applications for Scholarships and Fellowships.—Applications for all fellowships or scholarships in the Graduate Division, with letters and testimonials connected therewith, should be in the hands of the Dean of the Graduate Division, Berkeley, *on, or before, the first day of March preceding the academic year for which the awards are to be made.* Awards will be made in March, if possible, and notice thereof will be sent by mail to each applicant on April first. Acceptance of a graduate scholarship or fellowship must be made in writing by April fifteenth. It is expected that an accepted appointment will not be relinquished without reasons satisfactory to the President of the University. Payments are made at the office of the University Comptroller, in California Hall, in ten monthly installments, beginning September first, unless otherwise specified. Applications should be made through the Dean of the Graduate Division to the Graduate Council. A blank form of application may be obtained from the Dean of the Graduate Division.

Each award is for one year. The appointment may, however, be renewed at the discretion of the Academic Senate of the University.

The University Fellowships.—The Regents of the University have provided for eight fellowships of the annual value of \$500 each. These fellowships may be awarded to students in any department of the academic colleges.

For 1919-20 these fellowships have been awarded as follows: one in palaeontology, one in anthropology, one in history, one in geology, one in soil chemistry, and two in research medicine.

The LeConte Memorial Fellowship Fund has been established by the Alumni Association of the University, in memory of Professors John and Joseph LeConte. Its annual income is \$500, which may be devoted to the support of one or more fellowships, at the discretion of the Board of Administration of the Fund. Appointees must be graduates of the University of California of not more than three years' standing at the time of award; the sole test is superior excellence, as determined at its discretion by the Board, and recipients are to pursue their studies either at the University of California or elsewhere, as the Board may determine. Application forms may be obtained from the Dean of the Graduate Division

The John W. Mackay Junior Fellowships.—Under the terms of an endowment made by Clarence W. Mackay of New York City, jointly with his mother, Mrs. John W. Mackay, the University of California has established two John W. Mackay Junior Fellowships in Electrical Engineering, of an annual value of \$600 each. These fellowships are open to all properly qualified university graduates. The object is not to facilitate ordinary engineering or scientific study, but to enable students who have completed a college course to do research work in electrical engineering, with a view to aiding the advance of the application of electricity to scientific and industrial purposes. The place of residence of those holding the fellowship is to be at the University of California. Experimental or other work, however, may be carried on outside the laboratories of the University. The appointment to each fellowship shall be for one year, which appointment may, however, be renewed at the discretion of the Academic Senate of the University.

The Professor F. V. Paget Scholarship was created by the will of the late Madame Emmanuel M. Paget in memory of her husband, formerly Professor of French in the University. The will directs that the income of the fund shall be given annually to some deserving student in the department of French of the University of California. The award will ordinarily be made to a graduate student. The value of this scholarship is \$150.

The Lick Observatory Fellowships are maintained annually by the University. Annual value, \$600 each. Appointees devote their attention to graduate study and assist in the work of the Lick Observatory. Holders of these fellowships are usually permitted to spend one semester each year at Berkeley. Applications should be addressed to the Director of the Lick Observatory, Mount Hamilton, California.

The Whiting Bequest.—A bequest of twenty thousand dollars, now amounting to twenty-five thousand dollars, was made in 1895 by the will of Harold Whiting, formerly Associate Professor of Physics in the University. The net income from this sum is expended under the joint direction of the President and the Professor in charge of the department of Physics of the University. Since 1897 that income has been used annually with some exceptions to maintain one or two fellowships (value \$600 each). The Whiting Fellows have studied sometimes at Berkeley and sometimes abroad. In cases of distinct merit similar awards may be made from time to time, as an encouragement to advanced study and research in physics.

The Flood Fellowships in Commerce.—Two fellowships in Commerce of \$500 each have been established from the income of the fund donated to the University by Miss Cora Jane Flood. These fellowships are open to graduates of institutions of recognized standing, and are given for the purpose of encouraging research or advanced work in the field of business and related subjects.

The Willard D. Thompson Memorial Fund, established in 1910 by the will of Mrs. Jennie D. Thompson of Salt Lake City, as a memorial to her son, of the class of 1895, provides for scholarships for the higher education of worthy young men and women, residents of Utah, who shall have completed at least a four years' course in some high school of recognized standing. For the year 1919-20 the fund supported seven scholarships, yielding \$600 each. Open to undergraduates also.

The Scholarships of the Harvard Club of San Francisco.—The Harvard Club of San Francisco maintains two annual scholarships of the value of \$350 each for the purpose of aiding undergraduate or graduate students of the University of California or of the Leland Stanford Junior University to continue their work at Harvard University. Applicants should give full particulars of their scholastic records at the University of California and of their general plan of work at Harvard University. Written applications should be made not later than February 15th to the Chairman of the Scholarship Committee of the Harvard Club of San Francisco, Mr. George S. Potter, 1827 Pacific avenue, San Francisco.

The James M. Goewey Fellowship, founded in January, 1904, by the family of the late James M. Goewey, is awarded to a student in some branch of natural science. The amount available is \$600 annually.

The Frank M. Pixley Scholarship was founded by Mrs. Amelia V. R. Pixley, who bequeathed to the University \$3563.22 as an endowment to be administered by the Regents of the University of California. It was

the desire of the donor that the income from this fund should be used for the maintenance of some student in law. The annual income is about \$150.

Native Sons Fellowships in Pacific Coast History.—The Order of the Native Sons of the Golden West has provided a fund for the maintenance of one or more fellowships in Pacific Coast History. Candidates must be graduates of a university and must have done at least one year of graduate work upon Pacific Coast History. They must present some written work showing knowledge and capacity for research upon some subject in the history of the Pacific Coast.

The names of the candidates for the fellowships, with their qualifications and evidence of their training for historical research in the form of written work shall be submitted by the department of History of the University of California on or about the first of May in each year, to a committee chosen by the Grand Parlor of the Native Sons of the Golden West at its annual session, and the names of the candidates selected by the committee shall be submitted to the President of the University to be announced by him on Commencement Day. The holders of the fellowships may be candidates for re-election upon submitting proof of their fitness, either by thoroughness of the work done during the year of his term, or by promise for the completion of larger investigations. Usually four fellowships of \$750 each are awarded annually.

The Martin Kellogg Fellowship in Astronomy has been endowed by Mrs. Louis W. B. Kellogg in memory of her husband, Martin Kellogg, formerly President of the University of California. The income is \$1200. The stipend is variable and aims to cover necessary expenses of travel and residence. For further information apply to the Lick Astronomical Department, Mount Hamilton, California.

The Sheffield Sanborn Scholarships.—Mrs. Frances B. Sanborn, widow of Sheffield S. Sanborn of the class of '94, has established three scholarships, to be known as the Sheffield Sanborn Scholarships. One of the scholarships is for a student in medicine, one for a student in law in the Berkeley colleges, and one for a student in Hastings College of the Law. The scholarships are open only to students who have not received a degree in law or medicine, and who otherwise would not have the opportunity to acquire a university training. Each scholarship yields about \$250 a year.

The Bertha Henicke Taussig Memorial Scholarship was established in the University of California, June, 1914, by the trustees of a fund of \$10,000 created under the will of Hugo A. Taussig of San Francisco for the purpose of establishing in memory of his wife "a scholarship for

women in some university, or to be used in any other way for the higher education of women." In accordance with the directions of the trustees, preference is to be given, in the order named, to students of art, architecture, or literature. The recipient is to pursue her studies at the University of California or elsewhere as may be determined by the Graduate Council. The annual income from this scholarship is approximately \$600.

The George Ladd Prix de Paris, founded in 1918 by the will of Mrs. Elizabeth Patterson Mitchell, provides that the sum of \$1900 shall be awarded annually as a prize to a student of music at the University of California who shall have attained the highest excellence in harmony and composition for the given period of two years. The prize is to be given for the single purpose of enabling the holder to obtain two further years of musical study in Paris with particular reference to advanced harmony, composition and orchestration. This prize will again be available for the academic year beginning August, 1921.

The Young Women's Christian Association Fellowship in Social Economics is awarded annually by a special committee to a woman graduate of the University of California who is pursuing work leading to a master's degree in social economics, and who will at the same time supervise the work of the Social Service Department of the Young Women's Christian Association of the University of California. The fellowship yields \$500 annually.

The DuPont Fellowship in Chemistry is awarded annually by E. I. DuPont de Nemours & Company to a graduate student who is pursuing research in chemistry. The amount available is \$750 annually.

The James Rosenberg Memorial Scholarship in Agriculture was established in July, 1919, by Linda and Joseph Rosenberg in memory of their son who died in France in the service of his country. The income is derived from an insurance policy written by the government, and is awarded to a student in graduate status in the College of Agriculture who, in the judgment of that college, is thoroughly qualified to carry on a line of research that will contribute to the welfare of the farming communities of California. The amount of this scholarship is \$600 annually.

Teaching Fellowships or Assistantships will be available in many departments, each yielding from \$400 to \$600 per annum. Appointees devote about one-half of their time to teaching duties and the rest of their time to graduate work. Applications for these appointments should be addressed to the President of the University, through the head of the department concerned.

PRIZES

(Open to graduate students as well as undergraduate students)

The Bryce Historical Essay Prize of \$100 was established by Regent R. J. Taussig, to be awarded annually to the writer of the best essay on an historical subject to be chosen by the board of judges. The subject for 1920 is "American Immigration into California before the Gold Discovery in 1848." All essays entered in competition should be in the hands of the Recorder by March 1.

Newman Hall Essay Prize.—The Alumni Council of the Newman Club has offered a prize of \$100 to a student or recent graduate of the University for the best essay on history or literature. The subject for 1920 is "An Evaluation of the Work of Cardinal Gasquet in the Field of Pre-Reformation History." Essays should be in the hands of the Recorder by March 1, 1920.

The Irving Prize, yielding about \$25 annually, has been established by Mr. S. C. Irving of the class of '79 for the best comic story, sketch, anecdote or parody, in prose or verse, composed by a member of the student body. Manuscripts must be filed with the Recorder by April 1, 1920.

The Dante Prize of \$100, offered each year by the Dante Society of Harvard University, is open to students in any department of this University, or to a graduate of not more than three years' standing. Inquiries should be addressed to Professor G. R. Noyes, 419 Library, or to the secretary of the society, Mr. G. B. Weston, Harvard University, Cambridge, Massachusetts.

HISTORY AND ORGANIZATION OF GRADUATE INSTRUCTION

As early as 1881 the University of California had a small number of "resident graduates," and the faculty had arrived at the determination to bestow higher degrees only on the completion of prescribed courses of advanced study. The degree of Ph.D. was bestowed once only as an honorary degree (1881). In 1885 it was bestowed for the first time for the successful completion of graduate studies in residence. In that year the University had six graduate students "pursuing advanced studies under the direction of the faculty." In 1885 and 1886 the University had one graduate student in candidacy for the degree of M.A. and seven pursuing special subjects. The Register for 1886-87 announced in detail the conditions of residence and scholarship for the attainment of doctor's and master's degrees. Candidates for higher degrees were required to

be graduates of the academic department of this University or of some other university or college of acknowledged good standing. The candidate for the degree of Doctor of Philosophy was required to pursue an approved course of study for a period of at least three years, two spent in residence at the University, pass a final examination and produce an acceptable thesis. The candidate for a master's degree was required to pursue an approved course of study for a period of at least one year, pass an examination and present an acceptable thesis.

Since 1895 the administration of graduate work has been under the charge of a special committee of the Academic Senate. Under a resolution passed in 1917, this committee is known as the Graduate Council and comprises the President of the University, the Dean of the Graduate Division, the Dean of the Faculties, the Dean of the Summer Session, and the Recorder of the Faculties, ex officio, together with eighteen other members appointed by the President. These members are so chosen as to give adequate representation to the larger divisions of graduate study associated with the degrees of M.A., M.S., and Ph.D., as well as to engineering, agriculture, and the schools of Architecture, Education, Jurisprudence, and Medicine. The routine work is carried on by a special committee of the Graduate Council known as the Administrative Committee, of which the Dean of the Graduate Division acts as chairman.

From 1875 to 1919, inclusive, the University of California bestowed 417 degrees of Master of Science, *244 of Master of Letters, 780 of Master of Arts, 7 of Graduate in Architecture, 3 of Graduate in Education, 7 of Graduate in Public Health, 159 of Juris Doctor, 1 of Civil Engineer, 1 of Electrical Engineer, 1 of Metallurgical Engineer, 1 of Mining Engineer, 223 of Doctor of Philosophy.

UNIVERSITY OF CALIFORNIA PUBLICATIONS

In order to make generally available such contributions to knowledge as may develop in the prosecution of research work, the University issues several series of publications under the official title of *University of California Publications*. This medium of publication is open to any member of the University, the papers being accepted solely on the basis of merit as new and original work. Results of research work done by advanced students, including theses for higher degrees, may be accepted for publication by the University on the same footing with other contributions to knowledge.

The *University of California Publications* cover the following subjects: Agricultural Sciences, American Archaeology and Ethnology, Astronomy,

* Degree discontinued since May, 1915.

Botany, Classical Philology, Economics, Education, Engineering, Entomology, Geography, Geology, History, Mathematics, Modern Philology, Pathology, Philosophy, Psychology, Semitic Philology, and Zoology. The University publishes also a quarto series, entitled *Memoirs of the University of California*; the *University of California Chronicle*, a quarterly journal; a *Monthly Meteorological Synopsis of Berkeley*, a semi-annual *Bulletin of the Seismographic Stations*; a Prize Essay series; a Library bulletin, and the circulars and bulletins of the Agricultural Experiment Station.

A circular containing a list of the publications of the University may be obtained by application to the University Press.

STATEMENT OF CONDITIONS OF ADMISSION, CANDIDACY, AND DEGREES IN THE GRADUATE DIVISION

GRADUATE COURSES

Advanced instruction, leading to the several degrees of Master of Science, Master of Arts, Graduate in Architecture, Graduate in Education, Graduate in Public Health, Juris Doctor, Electrical Engineer, Civil Engineer, Mechanical Engineer, Metallurgical Engineer, Mining Engineer, and Doctor of Philosophy, is offered by the University of California to graduates of any recognized college or university.

The University Library contains about 403,000 volumes, including a Law Library of some 25,000 volumes. In addition thereto is the valuable and extensive material contained in the Bancroft Collection. The Library is admirably adapted for purposes of advanced study and research.

The laboratories are extensive and well equipped, and every facility is afforded for research work in both pure and applied science.

REQUIREMENTS FOR THE TEACHER'S RECOMMENDATION

Professional training for students who desire to teach is offered by the University through the School of Education, in which departments that offer special teachers' courses are represented. The requirements for the Recommendation for the Teacher's Certificate are given below under the School of Education.

REGULATIONS OF THE FACULTIES CONCERNING GRADUATE STUDENTS

I

ADMISSION TO GRADUATE STANDING

Graduates of the institutions constituting the Association of American Universities and of many other institutions are admitted to the Graduate Division upon presentation of their Bachelor's diploma at the office of the Recorder of the Faculties. Graduates of institutions not in the accepted list of the University may be admitted to the Graduate Division with the approval of the Dean of the Graduate Division after an evaluation of their certified college record by the University Examiner. Admission

to the Graduate Division does not of itself imply admission to candidacy for a higher degree.

The grade of work which graduate students may elect and their standing as candidates for degrees will depend upon the extent and character of their undergraduate courses. If the preliminary training of candidates has not been sufficient to qualify them for strictly graduate work they must pursue such undergraduate courses as may be suited to their needs.

II

CANDIDACY AND RESIDENCE

Students in the Graduate Division are classified either as resident graduate students or as graduate students in absence. Resident graduate students register with the Recorder of the Faculties on a day set aside for that purpose at the opening of each session. Graduate students in absence may complete their registration only with the approval of the department or departments in which studies are to be pursued and of the Dean of the Graduate Division, from whom blank forms for graduate study in absence may be obtained. If necessary, registration for graduate study in absence may be arranged by correspondence with the Dean.

All graduate students, whether in residence or in absence, are required to renew their registration at the University at the beginning of every regular session.

No graduate student is considered as a candidate for a degree unless he has been expressly advanced to candidacy by the Graduate Council upon formal petition. At least one academic half-year must elapse between formal advancement to candidacy for a degree and the conferring of such degree. Registration as a resident graduate student must, except in the case of graduates of the University of California, precede formal advancement to candidacy for a higher degree. If a student, who has pursued graduate studies in absence, later becomes a resident student and a candidate for a higher degree, the work done in absence will be given due consideration on its merits, but in every case, except that of candidacy for certain advanced degrees in engineering, at least one year is held to be residence at the University.

Residence at the Lick Observatory at Mount Hamilton, at the Southern California Pathological Laboratory and Graduate School of Tropical Agriculture at Riverside, at the Scripps Institution for Biological Research at La Jolla, or at the University Farm at Davis is regarded as residence at the University for students who have been formally authorized to work at any of these places. Furthermore, residence wherever a student may be directed by the Faculty to prosecute regular research is held to be residence at the University.

Two summer sessions or one summer session and one intersession, devoted to an approved course of study, may be rated as the equivalent of one half-year for purposes of residence.

Candidates for degrees may, at the discretion of the Graduate Council, be given credit for work taken at other universities, but such allowance of credit will not ordinarily reduce the minimum period of one year of residence required at the University of California.

Every graduate student must register for, attend, and complete upper division major or graduate courses amounting to at least four units per week each half-year, in order to satisfy the minimum residence requirement in candidacy for any higher degree.

Candidates who have received the bachelor's degree on the basis of twelve units of upper division major work in a single department shall complete at least three units of upper division major courses in the major subject, in addition to the usual requirement of eight units of graduate work.

Admission to graduate courses shall be based on adequate preparation in upper division major courses. Ordinarily the completion of twelve units of upper division major courses in the subject of the graduate course shall form the basis of admission to the course. Generally a graduate student shall not receive credit for more than twelve units in strictly graduate, or more than sixteen units in upper division major courses, during any one semester, or credit in graduate and upper division major courses in proportion.

III

CONDITIONS FOR A BACHELOR'S DEGREE FOR A GRADUATE STUDENT

Graduate students may be recommended as candidates for the degree of Bachelor of Arts or Bachelor of Science on completing at least twenty-four units during one or more years of attendance upon such courses of instruction as are regularly pursued by seniors in the University of California, and on performing such additional work and passing such examinations as may appear necessary to the Academic Senate. In all cases candidates must satisfy the graduate requirement of thirty-six units of advanced studies (as set forth in the Circular of Information) in the College of Letters and Science, or their equivalent in the colleges of applied science, not all of which, however, need have been done while in residence at this University. No person will be recommended for a bachelor's degree who shall not have satisfied substantially, at the time of procedure to the degree, the conditions imposed upon undergraduate students at the University of California.

IV

REQUIREMENTS FOR THE MASTER'S DEGREE—M.A., OR M.S.

Preliminary Preparation.—The preliminary training of the candidate for the degree of Master of Arts or of Master of Science should be substantially the equivalent of that represented by the corresponding bachelors degree of the University of California. A bachelor's degree in the University of California represents eight years of systematic high school and collegiate work distributed according to the requirements of the university for the particular college or course in which the student takes his degree. If the candidate's undergraduate course is found to be in any serious respect deficient as to breadth or fundamental training, or fails to provide a proper foundation for advanced work in the department or departments of the candidate's choice, it may be necessary for him to devote some time to undergraduate courses, and this may involve a longer period of residence than would normally be the case.

A graduate from an institution in the accepted list is admitted to candidacy for a master's degree at the University of California on an equality with a graduate of the University of California if his college course has included thirty-six units of advanced studies, with fifteen units in the department of his major subject. Such a student is not required to undertake additional work unless specifically required by the department of his major subject.

Amount and distribution of work.—There are required twenty semester units, including a thesis, which may count for not more than four units. The courses must be graduate courses or undergraduate major courses. At least eight of the twenty units, including the thesis, must be strictly graduate work in the major subject. It is expected that the work of the graduate course, or courses, together with the thesis, should ordinarily amount to not less than half of the entire work presented for the degree. Provided the foregoing requirements be met, the work may be distributed in any way that shall be satisfactory to the department in charge of the major subject, which department will supervise the student's work during his candidacy. Special departmental requirements may be found in this Announcement (see pages 00-00).

Residence (attendance) required.—The student must be in residence one year. Two summer sessions, or one summer session and one intersession, may be rated as the equivalent of one half-year for purposes of residence. A student is not regarded as a student in residence unless he is actually attending regularly authorized university exercises amounting to at least four units per week of major or graduate grade during a regular session, or of at least two units during a summer session. While ordinarily all of

the work for the master's degree is expected to be done in residence, graduates of this University or other approved candidates may complete a part of their work in absence, subject to the approval of the Graduate Council.

Students planning to offer summer session courses in partial fulfillment of the requirements for a higher degree or for the Recommendation for the High School Teacher's Certificate should be careful to select only courses especially designated in the Summer Session Announcement as acceptable for this purpose.

Thesis.—The thesis must be typewritten or printed; if typewritten, the page must be $8\frac{1}{2} \times 10$ inches, record ink must be used, the left-hand margin must be at least $1\frac{1}{2}$ inches wide, and the pages must be unbound and without perforations; if printed separately, it must be uniform in style and size with the University of California Publications. Exceptions are authorized only in drawing and architecture. The thesis must be approved by the department in charge of the candidate's work and must be filed with the University Librarian before the degree can be conferred.

Bachelors of Arts or Science of this University who are pursuing regular courses leading to a degree in a professional college of this University may receive a master's degree under the following conditions:

(a) The candidate must have finished creditably two years of the curriculum of the professional college.

(b) He must have received credit, in addition to his work for the professional degree, for eight semester units of graduate work, including a thesis, and such graduate work must be approved by the Graduate Council.

V

THE DEGREES OF GRADUATE IN ARCHITECTURE, GRADUATE IN EDUCATION AND GRADUATE IN PUBLIC HEALTH

The specific requirements for the degrees of Graduate in Architecture and Graduate in Public Health are given in the Circular of Information, and in the departmental announcements of this publication.

The specific requirements for the degree of Graduate in Education are given below under the School of Education.

VI

THE DEGREE OF JURIS DOCTOR

The degree of Juris Doctor is conferred upon the satisfactory completion of the law curriculum provided in the School of Jurisprudence. It is awarded only to the holders of an academic bachelor's degree. Graduates of any college of the University of California, and of other colleges

and universities of approved grade, are admitted as candidates for this degree. Two law courses are maintained, one of three years in length, and one of four years in length. Senior standing is prerequisite for admission to the former and junior standing for the latter. Except as provided for students admitted to advanced standing, candidates for this degree must have been in residence in the School of Jurisprudence during three years or four years, as the case may be. Credit for not more than twelve units will be given for any half-year, and at least eight units must be passed in order to maintain residence. Work done in the summer session may be counted for units, but not for residence, toward the requirements for the degree of J.D. Every candidate for the degree must present an acceptable dissertation on some legal topic.

In addition to the regular course examinations which are for the purpose of promotion from class to class, an examination based upon the work of the entire law course is required of all candidates for the J.D. degree. The examination may be written or oral or both and may include the working out of practical problems in the Law Library. The purpose of the examination is to test the ability of the student to correlate the subjects studied, formulate general principles, ascertain with accuracy the statutes and decisions, and apply the whole to the solution of a concrete case. The examination will not call for detailed knowledge; it will not be a test either of memory or of ability to cram, but is intended for the sole purpose of determining the efficiency developed by the careful work of three years.

Any person who, after becoming entitled to enter the law curriculum as a regular student, has been in regular attendance for at least one academic year at another law school, having similar admission requirements, may, in the discretion of the Faculty of the School of Jurisprudence, and on such terms, with or without examination, as it may prescribe, receive credit for the work done at such other law school. Every candidate for the J.D. degree must spend the last year of the course in residence in the School of Jurisprudence.

Further information concerning the requirements for the J.D. degree may be found in the separate Announcement of the School of Jurisprudence.

VII

THE DEGREE OF DOCTOR OF PHILOSOPHY

The work for the degree of Doctor of Philosophy is grouped under certain general headings, such as: I. Intellectual and Moral Philosophy; II. History and Political Science; III. Philological Science; IV. The Natural Sciences.

These groups, however, are by no means intended to be exhaustive.

Technical studies may be included in the minor subjects when specifically approved for graduate study in connection with the major subject by the Graduate Council.

Preliminary Preparation.—A candidate for the degree of Doctor of Philosophy must hold a bachelor's degree from one of the colleges of this University, based upon a curriculum that shall have included the requirements for a junior certificate, or must have pursued successfully a course of study equivalent to that represented by such a degree. A reading knowledge of French and German is required.

Plan of Study.—A course of study must be selected by the applicant from the groups above, and approved by the Graduate Council, embracing one principal and one, or two, subsidiary subjects, and extending over a period of at least two years, the last one of which ordinarily must be spent in continuous residence at this University. The work offered as the basis for the principal subject must be equivalent to that classed as "primarily for graduates."

The relation of the subsidiary subjects to the principal subject, and the number of them, will depend largely on the character of the proposed course as a whole, and on the student's general attainments. The applicant should be very careful to seek advice in the matter from the officers of the departments in which he wishes to study. The course as a whole must be rationally unified, and all of its constituent parts must contribute to some one general object of research and study; for the subsidiary subjects, by the very meaning of the term, are auxiliaries of the principal subject. Yet over-specialization is discouraged, and ordinarily a course lying wholly within a single department of instruction will not be approved. Candidates will be required to do as much work in the subsidiary subjects as may seem necessary in the judgment of the Graduate Council and of the instructors in immediate charge of each student's candidacy. It is expected that the principal subject will demand at least half of the candidate's time and efforts, or even two-thirds if but one subsidiary subject be chosen.

Advancement to Candidacy.—Applicants for admission to candidacy for the degree of Doctor of Philosophy must report in person to the Dean of the Graduate Division, who determines whether all formal requirements have been met.

The candidate must file his application, properly approved by the departments concerned. Such approvals shall signify that the departments consider the candidate sufficiently prepared and able to do effective graduate work in those departments. If desirable in the judgment of

the Dean, a preliminary committee for the investigation of the application may be appointed.

Advancement to candidacy shall take place not later than one year previous to the final examination.

Sub-Committees in Charge of Candidates.—Advancement to candidacy is followed by the appointment of a sub-committee by the Dean of the Graduate Division. Its constitution, and any changes which may subsequently become necessary, are approved by the Graduate Council.

A candidate for the degree of Doctor of Philosophy must carry on his studies under the general direction of the Graduate Council; but the immediate direction of the candidate's work is entrusted to a sub-committee composed of the professor in charge of the major subject, as chairman, of the professors in charge of the minor subjects, as associates, and of such other persons as may from time to time be named by the Graduate Council.

Semi-annual Report.—The sub-committee must meet with the candidate not later than two weeks after notification of appointment. It is the duty of the sub-committee, through its chairman, to file with the Dean a written statement of requirements imposed at any time upon the candidate. The sub-committee will be reorganized in case of failure to file a statement within three weeks after appointment. After the applicant has been admitted to candidacy the sub-committee must meet as a whole at least once each half-year, preferably with the candidate. The chairman of the sub-committee reports to the Dean the result of each meeting. The meetings of the sub-committee should take place not later than October 15 and March 15 of each academic year.

Preliminary Examination.—Not later than one half-year before the final examination the sub-committee must satisfy itself by a preliminary examination of the candidate's fitness. The results of the examination are reported by the chairman of the sub-committee to the Dean of the Graduate Division on a blank provided for the purpose.

Final Public Examination.—The final examination is public and oral and is conducted before the entire sub-committee. This examination is regarded as an independent test of the candidate's scholarly ability, apart from the test involved in the preparation of an acceptable thesis.

Thesis.—The degree of Doctor of Philosophy is given, not for the mere reason of faithful study for a prescribed time or in fulfillment of a determined programme, and never for miscellaneous studies, but on the ground of long study and high attainment in a special branch of learning, manifested not only by examinations but by a thesis bearing upon the principal subject of the course and of such a character

as to show power to prosecute independent investigations. The thesis must be presented to the Graduate Council through the Dean of the Graduate Division, upon a date to be determined and announced, and in any event prior to the final examination for the degree. The thesis must receive the approval of the Graduate Council before the degree is recommended.

The thesis shall have been passed upon definitely by the sub-committee and actually accepted two weeks before the final examination; but not before the candidate shall have passed his preliminary examination.

Before the degree is recommended, the thesis or a substantial abridgment thereof must be published, or the candidate must give satisfactory evidence that the thesis will be accepted by some approved publication.

Twelve copies of the printed thesis must be presented to the Library. A deposit of \$25.00 must be paid to the Comptroller two weeks before the final examination, to be refunded when the twelve printed copies of the thesis are received by the Librarian. Two weeks before the final public examination, two copies of the original text of the thesis must be in the hands of the Dean of the Graduate Division for faculty inspection. These copies will also be deposited in the Library. When printed as parts of journals or transactions, dissertations or theses shall bear a suitable inscription, to be determined by the Editorial Committee, to the effect that the dissertation is submitted in partial satisfaction of the requirements for the degree of Doctor of Philosophy in the University of California.

The degree of Doctor of Philosophy will not be conferred until the candidate shall have passed a special examination in each of the subjects presented for the degree, of such a character and at such time as may be determined by the sub-committee in charge, and subsequently thereto shall also have passed a public oral examination in the general field of his work, conducted by the sub-committee, with special emphasis upon familiarity with contemporary research.

Departmental Regulations.—Each department is permitted to adopt regulations concerning requirements for the degree of Doctor of Philosophy, provided that all departmental regulations touching these matters are submitted to the Dean of the Graduate Division and are approved by the Graduate Council.

VIII

CONDITIONS FOR DEGREES IN ENGINEERING

THE DEGREE OF MASTER OF SCIENCE

A candidate for the degree of Master of Science in any college of Engineering (Mechanical, Mining, or Civil) of the University of California must hold the degree of Bachelor of Science in that college of this University or must have completed a course of study formally accepted as an equivalent.

His application for candidacy, his general course of study, and the subject of his dissertation must be approved by the Graduate Council.

He must reside at least one academic year at this University, must complete to the satisfaction of the Academic Senate and under its direction and control a course of study represented by not less than twenty units of work, including a dissertation bearing upon the principal subject of the course and of such a character as to show power to prosecute original research. The dissertation must be presented not later than the first day of the period appointed for the examination for the degree. Regulations concerning filing of the thesis are the same as for the master's degree in the College of Letters and Science.

Upon the approval of an application for candidacy, a sub-committee will be appointed by the Graduate Council to supervise the work of the candidate and pass upon his dissertation and his qualifications for the degree.

In general, choice of subjects will be limited to the following list; but additions to this list may be made with the approval of the Council of Engineering and Applied Chemistry of the Academic Senate.

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| 1. Thermodynamics | 10. Testing of Materials |
| 2. Steam and Gas Engineering | 11. Irrigation Engineering |
| 3. Hydraulics | 12. Railroad Engineering |
| 4. Machine Design | 13. Sanitary and Municipal
Engineering |
| 5. Kinematics | 14. Geodesy |
| 6. Electrical Engineering | 15. Physics |
| 7. Mining, Metallurgy, and Ore
Dressing | 16. Chemistry |
| 8. Geology and Mineralogy | 17. Mathematics |
| 9. Structural Design | 18. Economics |

THE DEGREE OF ENGINEER

First Method

A candidate for the degree of Mechanical Engineer, Electrical Engineer, Mining Engineer, Metallurgical Engineer, or Civil Engineer must be a graduate of the appropriate college of this University, or must have successfully completed an amount of work equivalent to the regular undergraduate course in that college.

The candidate for the degree of Mechanical Engineer or Electrical Engineer must pass satisfactory examinations in the following studies: Thermodynamics; construction of hydraulic motors and thermal prime movers; electromagnetic machinery and accessories; machine construction and general machine design. For the degree of Mining Engineer the subjects are: Mining; ore dressing; petrography; economic geology; thermodynamics; construction of mining machinery; political economy. Metallurgical engineers must show proficiency in metallurgy; ore dressing; assaying; analysis; thermodynamics; construction of furnaces; metallurgical machinery; political economy. The Civil Engineering candidate must select a course of study embracing one primary and two subsidiary subjects from the following suggested lists: I. Primary subjects: metal structures; masonry construction; concrete steel structures; cements, mortars, concretes; water supply engineering; sewer systems; water supply and sewage purification; railroads; roads and pavements; river and harbor improvements; irrigation; canals; tunnels; testing of materials. II. Subsidiary subjects: subjects in mining, metallurgy, chemistry, mechanical and electrical engineering, astronomy, geodesy, economics, physics. Subsidiary subjects may also be chosen with proper approval from the primary group, but in such cases they need not be so exhaustively treated as when taken for primary work.

A candidate for the degree of Engineer in any of the groups named must have engaged for at least one year in professional work in addition to the time spent in graduate study. He must present an original memoir upon some subject bearing upon his profession. The degree will not be given earlier than three years after the completion of the undergraduate work. The memoir or thesis must bear upon the principal subject of the course and be of such character as to show power to prosecute independent investigation and also ability to take responsible charge of important engineering work. The thesis must be presented to the Graduate Council through the Dean of the Graduate Division for approval at least three months previous to the final examination for the degree. Special emphasis will be laid upon the requirement of a thesis and a degree will in no case be given merely for the faithful completion of a course of study or the practical prosecution of an ordinary piece of engineering work. A reading knowledge of French or German is essential for the degree.

Residence and study for a master's degree in any one of these branches of engineering may also be counted in candidacy for the degree of Engineer if in accordance with the provisions contained in the preceding paragraphs.

The division of time, study, and research among the principal and subsidiary subjects for the engineer's degree must be approved by the sub-committee in charge of the student. Every candidate must present to the Graduate Council not later than the first day of May of each year a detailed written report of the studies and work actually pursued during the year, certified to by all members of the committee in charge. Any candidate failing to comply with this requirement unless excused for cause will be considered to have withdrawn from candidacy.

The degree of Engineer will not be conferred until the candidate shall have appeared before the sub-committee in charge and shall have satisfactorily passed upon the studies pursued in such examinations, public and oral, as may be deemed necessary to show distinguished attainment in the principal subject.

Second Method

As an alternative for the procedure above outlined, any of the foregoing degrees in engineering may be conferred upon a candidate who meets the following conditions:

(a) He must be a graduate of the University of California, in any of the colleges of letters, sciences, or engineering and of not less than ten years' standing.

(b) He must give evidence of exceptionally successful professional work in the particular branch of engineering in which the degree is sought.

(c) His application must have been reported upon favorably by a committee composed of the Dean of the Faculties, the Dean of the Graduate Division, and the three Deans of the Colleges of Engineering.

(d) He must present an acceptable thesis, especially prepared for this purpose. He should consult the Dean of the Graduate Division concerning the form of the thesis and the number of copies required.

The year, or years, of residence and the final examination in graduate status will be remitted for any candidate who meets the requirements *a-d* above.

ANNOUNCEMENT OF ADVANCED COURSES

AGRICULTURE

THOMAS FORSYTH HUNT, Professor of Agriculture, Dean of the College of Agriculture.

WALTER MULFORD, Professor of Forestry and Director of Resident Instruction.

HERBERT J. WEBBER, Professor of Plant Breeding and Director of Agricultural Experiment Station.

B. H. CROCHERON, Professor of Agricultural Extension and Director of Agricultural Extension.

HUBERT E. VAN NORMAN, Professor of Dairy Management, Dean of the University Farm School, and Vice Director of the Agricultural Experiment Station.

EDWIN C. VOORHIES, Assistant Professor of Animal Husbandry, Assistant to the Dean, and Secretary of the College of Agriculture.

EDWARD J. WICKSON, Professor of Horticulture, Emeritus.

NOTE.—For members of the agricultural staff not included in this announcement see the Prospectus of the College of Agriculture.

Owing to the fact that the Department of Agriculture covers so broad a field it is necessary, in this announcement, to mention separately the opportunities for advanced study in each of the sub-departments, or divisions of this Department.

Students who intend to become candidates for higher degrees in the College of Agriculture will be required to give evidence of completion of an amount of work equivalent, in its value, to that required by this college for its degree of Bachelor of Science.

Research.—The conditions for advanced study and research in all branches of agricultural work are exceptionally good in California. The student may find here one of the most extensive arid regions in the world, in which great diversity of climate, crop, and soils afford an unparalleled choice of subjects for investigation.

AGRICULTURAL CHEMISTRY

Professors: J. S. BURD, D. R. HOAGLAND, P. L. HIBBARD.

Research.—Graduate students in agricultural chemistry who have had the equivalent of our undergraduate courses will be received, if they will accept as subjects for research those lines of investigation, or portions of them, upon which the members of our staff are at work. Ample laboratory facilities are provided for various lines of work and the opportunities for obtaining materials are adequate.

The course in agricultural chemistry which is available as minor work for students taking a major in other departments is Agricultural Chemistry 103.

GRADUATE COURSE

201A-201B. Research	BURD and HOAGLAND
299. Thesis for the Master's Degree	HOAGLAND

UPPER DIVISION COURSES

101A-101B. Advanced Agricultural Chemistry	HOAGLAND
102. Chemistry of Fertilizers	HIBBARD
103. Laboratory Study of Selected Topics	HOAGLAND
104A-104B. Pro-seminar in Agricultural Chemistry	BURD and HOAGLAND
105. Undergraduate Thesis Course	THE STAFF

AGRICULTURAL EDUCATION

Professors: W. G. HUMMEL*, F. L. GRIFFIN, O. J. KERN, S. H. DADISMAN.
Instructors: H. M. BUTTERFIELD, R. BENTON.

Facilities.—Graduate work in Agricultural Education may be undertaken under the supervision of this division at Berkeley, or at the Los Angeles and Davis branches of the University.

At Berkeley are to be found all of the facilities afforded by a great university. The educational library is very complete and the available literature dealing with rural and agricultural education is being rapidly accumulated. Many graduate courses in agriculture, in education and in the closely related fields are available.

* Absent on leave, 1919-20.

In Los Angeles, the Southern Branch of the University affords opportunity for graduate work during the intersession or summer session or both. Special consideration is shown agricultural teachers in this and other states who can spare only six weeks of each year for professional improvement and who desire to work for a master's degree. Similar opportunities are afforded at Berkeley and Davis.

At the University Farm, Davis, the State Department of Education, in cooperation with the University of California, College of Agriculture, has established a teacher-training center for the preparation of high school agricultural instructors under the provisions of the Federal Smith-Hughes Act. The work of the teacher-training center is under the immediate supervision of the Division of Agricultural Education.

The degree courses in agricultural education prerequisite for both the regular teacher's certificate and the special vocational agricultural certificate are given at the Davis Center. These include the Special Methods Course in Vocational Agricultural Education, the Special Methods Course in Teaching the Supplementary Vocational Subjects, and courses in the Organization and Supervision of Farm Projects and Observation and Practice Teaching.

Research.—The division of agricultural education has undertaken, as its major research project, the making and interpretation of educational and social surveys of certain typical rural communities in California. To men and women aspiring to qualify as rural social workers and educational leaders this work affords many problems for study.

Principals in rural high schools and high school agricultural instructors may select as subjects for research or thesis work, problems of individual or local importance. Such students are encouraged to make their graduate work of direct application and value to the communities in which they serve.

Graduate Courses.—The graduate courses in agricultural education include a seminar or Special Problems course which must be taken in connection with the required thesis work and an Observation and Practice Teaching course which will take the student into one or more California high schools giving instruction in agriculture, for a period of at least six weeks during the latter part of the spring semester. As a major or thesis subject the graduate student is permitted to choose from a variety of subjects, all of which have to do with present day problems in the field of agricultural education.

Preliminary Requirements.—Students desiring to qualify for the master's degree in agricultural education should have previously completed work equivalent to that required for graduation by the University of California College of Agriculture.

Master's Degree.—For the master's degree, a minimum of 8 units of graduate work in agricultural education is required. The remaining 12 units of advanced work may be taken in agriculture and education, as individual needs and interests may dictate.

High school teachers of agriculture may satisfy the residence requirements of the University for the master's degree by attending four summer sessions. This work may be done at Berkeley, Davis or Los Angeles, according as arrangements are previously made with the head of the division.

GRADUATE COURSES

202. Special Problems and Seminar Course	GRIFFIN
299. Thesis for the Master's Degree	GRIFFIN
300. Practice of Teaching Vocational Agriculture	DADISMAN

UPPER DIVISION MAJOR COURSES

100. Elements of Agricultural Nature Study and Gardening	KERN
103. Agencies for Rural Progress	KERN
105. Rural School Administration	KERN
106. Special Methods in Teaching Vocational Agriculture	KERN
107A-107B. Farm Projects, Their Organization and Supervision	DADISMAN
108. Special Methods in Teaching the Supplementary Vocational Subjects	DADISMAN
110. The Organization, Supervision and Administration of Vocational Agricultural Education	GRIFFIN
112. Agencies, Principles and Methods of Agricultural Extension	GRIFFIN
115. Selected Topics in Agricultural Education	GRIFFIN and KERN
120A-120B. Pro-seminar	GRIFFIN and KERN

AGRONOMY

Professors: J. W. GILMORE, B. A. MADSON, P. B. KENNEDY,
W. W. MACKIE, G. W. HENDRY.

Facilities.—The facilities for graduate study in this division consist of a seminar room and two laboratories with equipment ready at hand, or readily provided, for morphological and comparative studies of crops and plant parts. One laboratory is equipped with suitable tables, cases, germinators, microscopes and other apparatus pertinent to general laboratory work in crop production; the other laboratory is supplied with apparatus for the study of seeds, grains and parts of plants in their relations to nutrition, varieties, and culture methods.

Six hundred and twenty-five square feet of greenhouse space are available at Berkeley. At the several experimental stations—Davis, Kearney Park, and El Centro—facilities for the growing of crops under varying conditions of soil and climate are provided. In the general Library and the agricultural library are to be found a very complete collection of national and state reports and bulletins; also journals and periodicals on agronomy and cognate subjects.

Research.—With the facilities and equipment mentioned above, a number of lines of research are already under way. The relationships of cropping systems to crop-producing power of the soil, the improvement of cereals and forage crops by selection, crossing, adaptation, disease control, and studies in the relations of soil and aerial environment to the character and quality of the plant, may be mentioned as some of the types of research work now in hand.

Graduate Courses.—The graduate courses of instruction in major subjects consist of a seminar, in which all resident instructors and graduate students take part, library work in the bibliography and experimental data bearing upon assigned subjects, and experimental work in the field or greenhouse. The student is required to write up his work in the form of a report, which will be judged both upon the arrangement and subject matter, as well as upon the work done. In general, the work is arranged to suit the requirements of the individual student.

Preliminary Requirements.—For the creditable performance of graduate work in the division of agronomy the student should have completed courses in soils, animal husbandry, and crop production; as co-ordinated subjects the student should have had at least one complete course in each of the following subjects: geology, chemistry, botany, entomology, and plant pathology.

Master's Degree.—To meet the requirements for the master's degree with agronomy as the major subject, the student must complete with credit 8 units of investigational work during both semesters, and in addition perform the duties of the seminar and the library assignments pertinent to the subject of investigation.

Doctor of Philosophy.—All possible facilities in the way of apparatus, books, and opportunities for conference will be placed at the disposal of the students. Students looking forward to the doctor's degree in this division should communicate with the professor in charge for detailed information, stating the plan and scope of the work proposed.

GRADUATE COURSES

200. Advanced Agronomy.

GILMORE and Staff.

299. Thesis for the Master's Degree.

GILMORE and Staff.

UPPER DIVISION MAJOR COURSES

100. Advanced Practice.	MADSON.
103. Seeds.	KENNEDY.
104. Weeds.	KENNEDY.
106. Cereals.	MADSON.
107. Forage Crops.	KENNEDY.
108. Agrostology.	KENNEDY.
120. Crop Production.	MADSON and HENDRY.
122. Textiles, Raw Materials.	GILMORE.
125. Market Grades of Grain.	MADISON.
130. Conference—Special Topics.	GILMORE and Staff.
131. Special Studies.	GILMORE and Staff.

ANIMAL HUSBANDRY

Professors: G. H. TRUE, F. W. WOLL, J. I. THOMPSON, J. F. WILSON.

Instructors: D. T. BATCHELDER, G. H. WILSON, P. G. DOUGHERTY, C. V. CASTLE.

Facilities.—The different classes of live stock kept at the University Farm furnish excellent material for study and investigation of problems connected with animal husbandry. Many experiments conducted by members of the teaching staff with dairy cows, steers, sheep, goats, and hogs are in progress throughout the year and are reported from time to time in the publications of the College of Agriculture, as the investigations are completed.

GRADUATE COURSES

201. Research Problems in Animal Breeding.	TRUE.
202. Research in Animal Nutrition.	WOLL.

UPPER DIVISION COURSES

101. Management of Farm Animals.	THOMPSON.
102. Feeding of Farm Animals.	THOMPSON.
105. Judging Dairy Cattle and Hogs.	TRUE and THOMPSON
106. Judging of Beef Cattle, Sheep, and Horses.	THOMPSON and WILSON
107. Principles of Breeding.	THOMPSON.
108. Milk Production.	
109. Seminar in Breeding Problems.	TRUE.
110. Seminar in Feeding Problems.	WOLL.
111. Advanced Study of Breeds of Farm Animals.	TRUE.

CITRICULTURE AND SEMI-TROPICAL POMOLOGY.

Professor: J. E. COIT.

Instructor: E. W. HODGSON.

Facilities.—The division of citriculture, organized in January, 1913, is increasing its facilities for graduate work. These facilities include a rapidly growing library with extensive indices to the literature, herbarium, museum of fruit specimens and plant parts, collections of tools and accessories, a small greenhouse, and a Buchner hydraulic press. The principal semi-tropical fruits included in the work of the division of citriculture are citrus fruits, dates, olives, avocados, figs, Japanese persimmons, pomegranates, feijoas, guavas, sapotes, tunas, cherimoyas, loquats, mangoes, and other fruits of less importance.

Preliminary Requirements.—Graduates from this institution will be expected to have completed citriculture courses numbered 99, 101, 102, and 103. Graduates coming from other institutions will be required to include courses 101, 102, 103, and 105 in their first-year study-list. Foreign students should also include Citriculture 99.

Major Work.—Attention is especially called to the possibility of combining major work in the division of citriculture with correlated courses in other divisions, such as plant pathology, entomology, or pomology. Students with major work in other divisions may elect as correlative work Citriculture 201, upon satisfactory evidence of sufficient previous training, the instructor to pass upon each individual case.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy must have a broad knowledge of agricultural science and of horticulture in particular. They must complete a problem in independent research with citrus or semi-tropical fruits. They will be expected, when necessary, to bear the expense of travel in the citrus districts in search of special material or data to be used in their research work.

GRADUATE COURSE

201. Laboratory or Field Research.

COIT.

299. Thesis for Master's Degree.

UPPER DIVISION MAJOR COURSES

101. Citrus Fruits.

COIT.

102. Semi-tropical Fruits.

COIT.

103. Pro-seminar.

COIT.

104. Citrus Investigations.

COIT.

105. Advanced Citrus Fruits.

COIT.

106. Physiology and Anatomy of Citrus and Semi-Tropical Fruits

COIT.

GRADUATE SCHOOL OF TROPICAL AGRICULTURE AND CITRUS EXPERIMENT STATION

Detailed description given at end of Agriculture.

DAIRY INDUSTRY

Professors: C. L. ROADHOUSE, H. S. BAIRD.

Facilities.—The division of dairy industry does not offer graduate courses, but offers upper division courses which are open to graduate students from other departments. Full facilities are given for study of dairy manufactures, including sanitary milk handling, cheese making, butter making, et cetera. Instruction is given at the University Farm, at Davis, California.

For Dairy Bacteriology see Veterinary Science.

UPPER DIVISION MAJOR COURSES

102. Principles of Dairying.	ROADHOUSE.
104. Cheese Making.	BAIRD.
128. Butter Making.	DENNING.
130. City Milk Supply and Dairy Inspection.	ROADHOUSE and MARQUARDT.
131. Testing Dairy Products.	MARQUARDT.
134. Ice Cream, Ices and Dairy By-Products.	BAIRD and MARQUARDT.
135. Dairy Plant Management.	ROADHOUSE and DENNING.
138. Judging Dairy Products.	ROADHOUSE, BAIRD and DENNING.
140. Seminar in Dairy Industry.	The Staff.

ENTOMOLOGY

Professors: C. W. WOODWORTH, W. B. HERMS, E. C. VAN DYKE, G. P. GRAY,
E. O. ESSIG, S. B. FREEBORN.

Instructors: G. A. COLEMAN, H. H. SEVERIN, E. R. DE ONG.

Facilities.—The equipment of the entomological division consists of a series of laboratories provided with appropriate apparatus for all lines of entomological research.

Library.—The library facilities for graduate work in entomology and the collection of serial journals dealing with the subject are ample. In addition, a complete series of important publications, both American and

foreign, is maintained in the department library, and important libraries on the subject are available in San Francisco and Sacramento.

Research.—In general, it may be said that the great diversity of climate and crops in California affords unusual opportunity for investigation of special problems, in the field, in all divisions of the subject. Summer work for the graduate student is offered in the summer session of the University. A special field course in forest entomology, with a camp to be established at some point in the Sierra Nevada Mountains, will be provided.

Publications.—The bulletins and reports of the Experiment Station give opportunity for the publication of studies of practical bearing in agriculture; the series in agricultural sciences of the University publications will include those of a technical nature; and a special entomological series is devoted to entomological research which is not strictly agricultural.

Preliminary Requirements.—Graduate courses leading to higher degrees are offered in insect biology and insecticides. The completion of at least 20 units of work in entomology or cognate subjects, of which 15 units shall be major courses, is required for full graduate standing.

Master's Degree.—For the master's degree in entomology the minimum requirement is 6 units of work selected from courses 200, 201, 205, and 218. The work in correlative subjects to accompany that just described should be equivalent to a full undergraduate major of 15 units and be taken from one of the following departments: (1) For *insect biology*, botany, zoology, physiology, or genetics; (2) for *insecticides*, chemistry, agronomy, agricultural chemistry, landscape gardening and floriculture, viticulture, horticulture, plant pathology, or pomology.

Doctor of Philosophy.—For the doctor's degree in entomology the recommendations regarding minors are the same as for correlatives for the master's degree.

Parasitology

Parasitology, though a subdivision of entomology, is recognized as a major subject, by reason of its economic importance and of the fact that many of the prerequisites and methods of study differ from those in the general field of entomology. The subject involves the study of both the ectozoa and entozoa of man and beast as related to the causation and transmission of disease. Insect pests of plants are not included in this subject.

Facilities.—Owing to the varied climatic conditions in California from semi-tropical to temperate and its proximity to the Orient, the field of parasitology is here of more than usual interest and importance.

Much material is constantly available in the field, affording good opportunities to study the habits of the parasite under natural conditions and to test control methods evolved in the laboratory. Ample laboratory facilities are offered, including bacteriological and biological equipment. A large collection of parasitic protozoa, worms, insects and arachnids is available, and is constantly being augmented. Living material is almost constantly available.

Preliminary requirements.—Students undertaking research work in parasitology are expected to have had fundamental preparation in zoology, bacteriology and chemistry and should have a reading knowledge of either French or German. Students making parasitology their major are advised to take their collateral work in either hygiene, pathology (bacteriology), veterinary science, or zoology.

Aside from the regular undergraduate courses in medical and veterinary parasitology, there is offered a graduate seminar in parasitology which is also open to qualified undergraduates.

GRADUATE COURSES

200A-200B. Seminar in Parasitology.	HERMS.
201A-201B. Research in Parasitology.	HERMS and FREEBORN.
205A-205B. Research in Insect Biology.	WOODWORTH and VAN DYKE.
218A-218B. Research in Insecticides.	GRAY.
299. Thesis for the Master's Degree.	

UPPER DIVISION MAJOR COURSES

103. Special Problems.	The Staff.
105A-105B. Apiculture.	COLEMAN.
106A-106B. Insect Structure.	SEVERIN.
112. Advanced Systematic Entomology.	VAN DYKE.
114. Forest Insects.	VAN DYKE.
116. Veterinary Parasitology.	HERMS and FREEBORN.
117. Insecticide and Fungicide Preparation.	GRAY.
118. Insecticides and Fungicides.	GRAY.
121. Life History Work.	VAN DYKE.
122. Floral and Landscape Entomology.	ESSIG.
124. Orchard Insects.	ESSIG.
126. Medical Parasitology.	HERMS.
127. Medical Parasitology Laboratory.	HERMS and FREEBORN.
129A-129B. Undergraduate Thesis Courses.	The Staff.
130. Rural Sanitation.	HERMS.
131. Mosquito Control Administration.	FREEBORN.

FARM MANAGEMENT

Professor: R. L. ADAMS.

Facilities.—Graduate work in the division of farm management has for its foundation the unusually rich, varied and accessible agriculture of a state comparatively new in development and advanced in practice. Opportunities for study are available through connections with farms and ranches operating under varying degrees of success, these covering corporation, family, state and college owned properties. Headquarters for graduate work is maintained at Berkeley, where an extensive library and ample laboratory space are at the disposal of students. Supplementary investigations are usually arranged so that students may become acquainted with the prevailing commercial and experimental practices in the state.

Research.—Opportunities are offered graduate students to qualify as: (a) practicing farm managers; (b) teachers of farm management; (c) investigators.

Research studies cover a wide range of subjects, of which the following are but indicative: farm results, as determined by specialized and diversified practices; farm labor—kinds, distribution, compensation and care; farm accounting—extent and systems for specialized and general farms; farm structures—construction, materials, costs; costs of production—of California crops, stock and stock products, corporation farming—its place, future and influence; state institution farming—as practiced at asylums, hospitals, prisons; farm equipment—selection, extent, kinds and cost.

Farm surveys, tenancy, and cost of production studies now under way provide an opportunity for immediate work. These studies are conducted from the standpoint of the individual operator or individual farm, and aim to develop business methods and farm plans of value to the student of farm management.

Preliminary Requirements.—A thorough understanding of and training in general agriculture, including animal husbandry, agronomy and horticulture, with their allied subjects, as represented by a four-year course in a college of agriculture or its equivalent, must precede enrolling for graduate work in the division. A knowledge of rural economics is desirable.

Master's Degree.—For the master's degree, a minimum of eight units of graduate work in farm management and twelve additional units in related agricultural subjects, based on individual needs and interests, are required.

GRADUATE COURSES

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| 200. Research in Farm Management. | ADAMS. |
| 201. Thesis in Farm Management. | ADAMS. |

UPPER DIVISION MAJOR COURSES

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| 118. General Farm Management. | ADAMS. |
| 119. Advanced Farm Management. | ADAMS. |

FARM MECHANICS

Professors: L. J. FLETCHER, A. H. HOFFMAN.

Instructors: H. L. BELTON, R. C. INGBIM.

Facilities.—Facilities for the study of the fundamental principles underlying the construction and the operation of agricultural machinery, farm motors, et cetera, are offered at the University Farm, at Davis, California, where a research laboratory is being developed. Facilities for graduate study are indicated by the opportunities for undergraduate work, which are as follows: actual practice is given in the use of modern field machinery for tillage, seeding, and harvesting operations. General labor-saving machinery, including farm motors, animal treadmills, water, gasoline, crude oil and electric motors, gasoline and steam tractors, farm pumps, windmills and pressure water systems, are available for instruction. In the shops facilities are offered for the practical use of wood-working tools and model work demonstrating the use of the steel square in roof framing and building construction. The blacksmith shop is well equipped with forges and tools, so that the student is given thorough instruction in the principles and practice of all kinds of farm blacksmithing such as bending, forming, welding, and keeping in repair all farm machinery.

UPPER DIVISION MAJOR COURSES

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| 101. Farm Machinery and Farm Motors | FLETCHER. |
| 102. Dairy Mechanics. | FLETCHER. |

FORESTRY

Professors: W. MULFORD, D. T. MASON, D. BRUCE, W. METCALF, E. FRITZ.

Facilities.—The National Forests of California, over twenty million acres in area, and with their central offices reached in less than an hour from the University campus, are in themselves a great laboratory, avail-

able to the division of forestry. The redwood forest region stretching northward along the coast from San Francisco Bay—a region not included in the National Forests—offers another very important and easily reached field for study. In the National Forests and in the redwood region a wide variety of forestry work is in progress on a large scale, including very extensive logging operations.

Part of the instruction is given in a summer camp which is held each year from May to August. In 1920 this camp will be at the headquarters of the Plumas National Forest, in the Sierras.

Research.—The opportunities for immediately useful research along forestry lines in California are very great and the field is almost untouched. Among the opportunities are the widely varied problems in logging and other forest engineering lines; efforts in the broad field of wood technology and wood utilization to find the best woods for various purposes and the best means of utilizing by-products; the application of modern scientific management to forest administration, and other problems connected with forest management; and a wide range of silvicultural questions which ought to be answered soon.

Preliminary Requirements.—In order to become a candidate for the master's degree with a major in forestry, a student must have completed the equivalent of the four years' undergraduate course in agriculture with forestry as major subject, as given at the University of California.

Master's Degree.—The aim of the work for the master's degree is to give specialized training for forest engineering, forest management, forest products, or silviculture; also, in conjunction with other divisions or departments, to furnish special work in forest botany, forest economics, forest entomology, forest pathology, forest zoology, and landscape forestry.

Doctor of Philosophy.—Subject to the general requirements for the degree of Doctor of Philosophy, this division suggests the following grouping of subjects:

(a) Major, forestry, in any of its branches; minor or minors in botany, chemistry, economics, engineering, entomology, landscape gardening, plant pathology, or zoology.

(b) Forestry as a minor in connection with a major in any one of the subjects mentioned above.

GRADUATE COURSE

202A-202B. Research.

The Staff.

UPPER DIVISION MAJOR COURSES

104. Silviculture—Natural Reproduction.	MULFORD.
106. Silviculture—Artificial Reproduction.	METCALF.
108. Timber Trees and Forest Regions.	METCALF.
112. Forest Utilization.	FRITZ.
114. Wood Technology.	FRITZ.
115. Logging.	BRUCE.
118. Forest Engineering.	BRUCE.
120. Forest Finance and Organization.	MASON.
122. Forest Policy and Administration.	MASON.
124. The Lumber Industry.	MASON.
128. Conference.	The Staff.

GENETICS

Professors: E. B. BABCOCK, R. E. CLAUSEN.

Instructor: J. L. COLLINS.

Facilities.—Laboratory room and equipment for cytological work, study of insects and flowers with reference to breeding, testing pollen, rearing and breeding insects, et cetera; an enclosed garden and small unprotected plots for outdoor cultures; reference library with card index.

Research.—Pure strains and new varieties of the vinegar fly, *Drosophila melanogaster*, as well as other species of *Drosophila*, are available and furnish excellent material for laboratory research in genetics. Unusually attractive material for research in plant genetics is also available, the most important being pure strains, interspecific hybrids and intervarietal hybrids of tobacco, Crepis, maize, barley and wheat. The graduate course, Genetics 200 offers work on special problems with any of the above mentioned material and is arranged with individual students to suit the time at their disposal and the nature of the problem chosen.

Preliminary Requirements.—Preliminary training should consist of a thorough preparation in biology and the fundamental principles of genetics. Experience in cytological technique, biometrical method, and breeding practice will be of decided advantage in graduate study, but students proficient in only a portion of the field may pursue work along their special lines. In general an applicant for full graduate standing should offer the equivalent of 15 units in undergraduate major work in genetics, breeding, or those phases of biology directly connected with the study of variation, classification, reproduction, heredity and evolution, or properly selected courses in agricultural science.

Master's Degree.—For the master's degree the combinations of graduate or major courses in genetics with botany, zoology, physiology, mathematics, or correlated divisions of the department of agriculture, in a manner satisfactory to the departments concerned, will be accepted.

Doctor of Philosophy.—Subject to the general requirements for the degree of Doctor of Philosophy, this division suggests the following grouping of subjects:

(a) Major, genetics; minor or minors in botany, zoology, physiology, mathematics, entomology, agronomy, pomology, citriculture, poultry husbandry or animal husbandry.

(b) Genetics as a minor under any one of the subjects mentioned under (a).

GRADUATE COURSES

200. Research in Genetics.

The Staff.

299. Thesis for Master's degree.

The Staff.

UPPER DIVISION MAJOR COURSE

120. Special Topics and Pro-seminar.

The Staff.

LANDSCAPE GARDENING AND FLORICULTURE

Professor: J. W. GREGG.

Instructors: K. D. JONES, C. L. FLINT.

Facilities.—The division is equipped with a very large draughting room with overhead light and furnished with all the instruments, draughting tables, and other equipment necessary for professional work in landscape design. In the University Library may be found the best literature dealing with the art in this and other countries. In addition, the division maintains in its own offices and draughting room other literature in the form of park, city, and town planning reports, and in the agricultural library may be found all state and government bulletins dealing with this and allied subjects.

Research.—The interest in civic improvement now generally affords opportunity for the study at first hand of landscape problems of all kinds, from the design of small suburban lots to the municipal parks and park systems of the larger cities, including city and town planning and real estate subdivision work. The University campus and the grounds of the various substations, Golden Gate Park, and the many large nurseries, all offer unusual opportunities for the study of plant materials and their adaptability for landscape work. Considerable outside area on the Uni-

versity campus is devoted to the propagation and raising of ornamental nursery stock, and four greenhouses furnish opportunity for investigational and practical work.

Master's Degree.—All major work must be taken in this division, while the minor subjects may be taken in architecture, drawing or engineering to complete the master's degree in landscape gardening. Collateral work is suggested in plant pathology, botany, entomology, and genetics.

GRADUATE COURSES

201. Modern Civic Art.	GREGG.
202A-202B. City and Town Planning.	GREGG.
299. Thesis for Master's Degree.	_____

UPPER DIVISION MAJOR COURSES

101. Ornamentation of Home Grounds.	FLINT.
102A-102B. Commercial Floriculture.	FLINT.
103. The Theory and Aesthetics of Landscape Gardening.	GREGG.
104A-104B-104C. Plant Materials.	JONES.
105. Elementary Landscape Gardening.	JONES.
106A-106B. Advanced Landscape Gardening.	GREGG.
107. History and Literature.	JONES.
108. Tree Surgery.	FLINT.
109. Home Floriculture.	FLINT.

NUTRITION

Professors: M. E. JAFFA, E. J. LEA.

Instructor: HAROLD GOSS.

Facilities.—Ample facilities are offered for graduate work in the field of food chemistry and animal and human nutrition. The nutrition laboratories are well equipped for such work and an adequate collection of books and journals bearing on this subject is in the Division Library.

Research.—The division of nutrition is coöperating with the division of veterinary science in conducting metabolism experiments with poultry.

Preliminary Requirements.—In addition to the usual requirements, the student must have had a thorough training in methods of quantitative chemical analysis with special reference to such organic compounds as occur in foods and agricultural products. Some training in physiology will be required, and physiological chemistry is desirable. A reading knowledge of German is essential, and a knowledge of French is desirable.

Master's Degree.—Candidates for the master's degree may select for major work some phase of animal or human metabolism, or the examination of food products with special reference to effects of various methods of preparation upon composition and nutritive value. The metabolism experiments now under way also offer opportunity for work of this character. Collateral work may be chosen in agricultural chemistry, bacteriology, veterinary science, physiology, physiological chemistry, et cetera.

Doctor of Philosophy.—The candidate for the degree of Doctor of Philosophy must satisfy the division that his selection of major and minor subjects is properly made. No special requirements in this division are suggested.

GRADUATE COURSES

215. Special Studies.	The Staff.
230. Seminar in Foods and Nutrition.	JAFFA.
231. Research in Food Chemistry and in Nutrition.	JAFFA and GOSS.
232. Seminar in Nutrition and Metabolism.	_____
299. Thesis for the Master's Degree.	_____

UPPER DIVISION MAJOR COURSES

106. Feeds and Feeding.	JAFFA and GOSS.
109. Laboratory Course in Dairy Chemistry.	GOSS.
114. Fundamentals of Nutrition.	_____
116. Foods and Food Products.	JAFFA.
117. Laboratory Courses in Food Analysis.	GOSS.
119. Advanced Course in Food Chemistry.	GOSS.
120. Pro-seminar in Nutrition.	JAFFA.
126. Advanced Nutrition.	_____
127. Laboratory Course in Advanced Nutrition.	_____
129. Problems in Nutrition and Food Chemistry.	JAFFA and GOSS.

PLANT PATHOLOGY

Professors: R. E. SMITH, W. T. HORNE, ELIZABETH H. SMITH.

Facilities.—The division of plant pathology is prepared to give graduate instruction and opportunities for research covering all phases of the subject. Complete laboratories in Agricultural Hall are available for the purpose, supplied with all necessary equipment and apparatus.

Research.—Proximity to the immensely varied productions of the central and northern parts of the state and the large number of problems awaiting solution in these sections make this a particularly favorable location for investigations in plant pathology.

GRADUATE COURSES

230. Research Work.

The Staff.

299. Thesis for the Master's Degree.

UPPER DIVISION MAJOR COURSES

120. Diseases Affecting Cultivated Plants in California.

HOENE and E. H. SMITH.

122A-122B. Advanced Course.

The Staff.

125A-125B. Special Topics.

The Staff.

126A-126B. Pro-seminar.

R. E. SMITH and HORNE.

POMOLOGY

Professors: J. C. WHITTEN, W. L. HOWARD, A. H. HENDRICKSON, W. P. TUPTS, E. L. OVERHOLSER.

Instructors: G. L. PHILP, J. P. BENNETT.

Facilities.—Facilities for work are available in the University laboratories at Berkeley, at the University Farm at Davis, at Fresno, and in the fruit districts throughout the state.

Research.—The diversity of fruit crops and of the conditions under which they are grown in California offer the graduate student an unequaled field for study along the lines of adaptations, systematic pomology, and methods and economics of production, handling, and marketing.

Preliminary Requirements.—Courses 101, 102, 103, and 106, or their equivalent, are prerequisite to graduate work, and course 104 is prerequisite to, or must accompany, graduate work in pomology.

GRADUATE COURSE

201. Research.

WHITTEN and Staff.

299. Thesis for the Master's Degree.

UPPER DIVISION MAJOR COURSES

101. General Principles of Fruit Growing.

WHITTEN.

102. Orchard Fruits.

HENDRICKSON and OVERHOLSER.

103. Orchard Practice.

105A-105B. Pro-seminar.

WHITTEN and Staff.

106. Systematic Pomology.

HENDRICKSON and OVERHOLSER.

120. Special Topics and Fundamental Problems of Fruit Growing. BENNETT.

POULTRY HUSBANDRY

Professors: J. E. DOUGHERTY, W. E. LLOYD.

The division of poultry husbandry does not offer graduate courses, but does offer upper division courses which are open to graduate students from other departments. This work, which is given at the University Farm at Davis, consists of advanced work in incubation and brooding, feeding, management, et cetera, for which unusual facilities are provided.

UPPER DIVISION MAJOR COURSES

101. Poultry Husbandry.	DOUGHERTY and LLOYD.
102. Poultry Management.	DOUGHERTY and LLOYD.
104. Pro-seminar.	DOUGHERTY and LLOYD.
105. Research.	DOUGHERTY and LLOYD.

RURAL INSTITUTIONS

Professors: E. MEAD, W. R. CAMP.

Facilities.—The State of California presents favorable opportunities for studying the methods and policies which should enter into or influence rural life. The central office of the State Land Settlement Board is at the University. It is the only organization in this country that is creating rural communities according to carefully thought out plans and the faculty of the College of Agriculture acts as a staff of expert advisors in this development. The operations under the State Land Settlement Act and the relation of the University to the work give opportunities for practical training in planning and managing rural communities greatly needed in this country. There is a need for trained young men and women and this need is destined to increase rapidly in the future.

Research.—The investigations of rural credits and colonization heretofore made are to be continued. These are to be supplemented by investigations in tenantry, in private and state colonization methods and policies of this and other countries, in the organization of states and rural communities to provide more direct methods of marketing and distributing farm products.

Publications.—Results of investigations in colonization and rural credits, methods and policies in soldier settlement, plans for reclaiming and settling the arid lands of California, plans for soldier settlements, investigation of the marketing of milk, have been published and progress reports made on the operation of the state land settlement act.

Preliminary Requirements.—Undergraduate training for those who propose to take graduate studies in rural institutions should include courses in economics and political science. It is desirable that the graduate students should have a good training in agronomy and have a practical knowledge of farm life.

Master's Degree.—Requirements for major work for the master's degree consist of 8 units of research work throughout the year and reports on library assignments relating to the subject of the investigation.

GRADUATE COURSE

201. Research in Methods and Policies Required in Planned Rural Development. MEAD and CAMP.

UPPER DIVISION MAJOR COURSES

101. Study of the Social and Economic Problems of Farm Life. CAMP.
102. Planning Rural Development. MEAD.

SOILS AND FERTILIZERS

Soil Chemistry and Bacteriology.

Professors: C. B. LIPMAN, W. F. GERICKE.

Instructor: G. A. LINHART.

Soil Technology

Professors: C. F. SHAW, A. SMITH.

Facilities.—For graduate instruction and research in this major subject there is ample laboratory desk space for several students, and sufficient space in the greenhouse for experiments in plant physiology, soil physics, soil chemistry, and soil bacteriology. In addition to these laboratory and greenhouse facilities, excellent library facilities are offered. Connected with the laboratories is a very complete working library for consultation by graduate students, and the periodical room as well as the stacks of the general University Library are supplied with leading journals and other publications concerning work in soils and soil fertility.

The types of soils in California are so many and varied, the problems of soil fertility so interesting and so complicated, that any graduate student with the proper equipment will find this field a most profitable one for investigational work.

Research.—The research work already accomplished, and now in progress, in the two divisions in the field of soils deals with fundamental

studies of the physical, chemical, and bacteriological nature of California's soil columns, in which the relation of the celebrated deep soils of the arid region to plant growth have been closely studied, as well as the relation of alkali to plant growth and to the soils' microflora, fundamental studies on phenomena related to the physical, chemical, and bacteriological conditions of soils, investigations dealing with the subject of antagonism between salts as related to different phases of soil work and plant growth, studies on the reclamation of alkali land, the tolerance of different plants for different alkali salts, and the relation of smelter waste products, including salts of the heavy metals, to the contamination of the irrigation water supply.

Publications.—Results of investigation have been published in California Experiment Station Reports, Wollny's *Forschungen auf dem gebiete der Agrikultur-Physik*, *Centralblatt für Bakteriologie*, *Journal of Physical Chemistry*, *Botanical Gazette*, *Journal of the American Chemical Society*, *Journal of Industrial and Engineering Chemistry*, *Publications of the American Society of Agronomy*, *Proceedings of the Society for the Promotion of Agricultural Science*, and many other publications; also in the series of publications in *Agricultural Sciences of the University of California*, and in the *California Experiment Station Bulletins*.

Preliminary Requirements.—The undergraduate training required of those who propose to undertake graduate studies in soils and fertilizers is fully outlined in the *Announcement of Courses*, which may be had on application to the Recorder of the Faculties. In general, it is desirable that graduate students be equipped with a good training in soil physics, soil chemistry, and soil bacteriology, as well as in plant physiology.

Graduate Courses.—The graduate courses which are offered are so arranged as to suit the requirements of individual students. The prerequisites for such work are mentioned above. In conjunction with research work, a seminar course, meeting once a week for two hours throughout the year, is conducted in the preparation of papers based on the research of leading investigators. In the full and free discussion of these, excellent opportunity is offered for training in the methods, principles, problems, and thought of modern research work in soils.

Master's Degree.—The requirement for major work for the master's degree in soils and fertilizers consists of 6 units of research work throughout the year in addition to the seminar course above mentioned.

Doctor of Philosophy.—Many problems are at the disposal of students who desire to take the degree of Doctor of Philosophy, and apparatus, books, greenhouse and field equipment are provided as needed to the fullest extent.

GRADUATE COURSES

235. Research in Soils and Their Relations with Plants.	LIPMAN.
236. Seminar in Soils and Their Relations with Plants.	LIPMAN.
299. Thesis for the Master's Degree.	_____

UPPER DIVISION MAJOR COURSES

101. Soils of the United States.	SHAW.
102. Advanced Soil Physics.	SMITH and MONROE.
103. Soils of California.	SHAW.
122. Interrelation of Plants and Soils.	LIPMAN and GERICKE.
126A-126B. Pro-seminar in Soils.	LIPMAN.
127. Special Problems.	LIPMAN.

**GRADUATE SCHOOL OF TROPICAL AGRICULTURE AND CITRUS
EXPERIMENT STATION**

Detailed description given at end of Agriculture.

VETERINARY SCIENCE

Professors: C. M. HARING, G. H. HART, J. TRAUM, F. M. HAYES, J. R. BEACH.

Facilities.—Graduate work may be undertaken in dairy bacteriology, certified milk production, dairy sanitation, and animal hygiene. The library contains the latest books on these subjects and files of bulletins and ordinances from the various cities. Laboratory facilities are good. There is opportunity to undertake field work in connection with bacteriological examinations of certified milk and certified dairy inspections. The veterinary division of the department of agriculture supervises the production of a larger amount of certified milk than any other similar institution in the United States, including four certified dairies in which 1500 animals are tested annually.

The University of California Certified Dairy operated by the veterinary division at Berkeley furnishes excellent material for the study of the bacteriological problems in milk production and animal hygiene. Students specializing in public health will find facilities for practice in dairy and meat inspection.

There is provided a seminar or research course, open to all graduate students with a knowledge of general bacteriology.

Research.—The following research projects are open to graduate students:

Immunity studies in animal tuberculosis;
 Tuberculin tests and other methods of diagnosing animal tuberculosis, including complement fixation tests;
 The means of the spread of tuberculosis in cattle and hogs;
 Coöperative control of tuberculosis in animals;
 Control of hog cholera and other swine diseases;
 The effect of feeding pasteurized milk to new-born calves;
 Certified dairy inspections;
 Bacteriological examination of certified milk;
 Studies of infectious abortion;
 The manufacture of *B. botulinus* serum;
 Investigations concerning roup and chicken-pox;
 Miscellaneous investigations concerning diseases of domestic animals;
 The pathology of food deficiency diseases of animals.

Preliminary Requirements.—The prerequisites depend on the character of the problem to be investigated.

Master's Degree.—Course 200 can be used to fulfill the minimum requirement for the major work for the master's degree. Students may take collateral work, when pursuing graduate studies in veterinary science, in any division of the department of agriculture or in that of any other scientific department of the University.

GRADUATE COURSE

200. Research in Dairy Bacteriology, Dairy Sanitation, and
 Animal Hygiene. HARING, HART, and HAYES.
 299. Thesis for the Master's Degree. —

UNDERGRADUATE MAJOR COURSES

111. The Anatomy, Physiology, and Pathology of Domesticated
 Animals. HAYES.
 117. Bacteriology of Milk, Sanitary Milk Production, and
 Dairy Inspection. HARING and HART.
 119. Undergraduate Thesis Course: Advanced Dairy Bacteriology.
 HARING, HART and HAYES.

VITICULTURE AND ENOLOGY

Professors: F. T. BIOLETTI, W. V. CRUESS, F. C. H. FLOSSFEDER.
 Instructors: L. O. BONNET, A. W. CHRISTIE.

Facilities.—Students will find ample opportunities for research in viticulture, enology, and zymology in the library, which is supplied with the special literature of these subjects, in the viticultural labor-

atory and greenhouse, in the zymological laboratory equipped for the study of microbiology and the fermentation industries, and in the vine collections and nurseries at Davis, Kearney Park, and Imperial. The vineyards of California and the canning, pickling, tanning, and similar industries carried on largely in the bay region offer excellent opportunities for study and investigation.

Research.—The principal investigations of this division have been concerned with (1) the cultivation of the vine; notably, testing new varieties, pruning and grafting, methods of raisin making, control of various diseases and insect pests; (2) miscellaneous subjects, including the growing, handling and pickling of olives, the canning of fruits and vegetables and the methods of utilizing fruits for fruit juices, syrups, vinegar, candied fruits, essential and fixed oils, fruit acids, jellies and marmalades and various by-products of orchards and vineyards.

The investigations of advanced and graduate students have included subjects whose general nature is indicated by the following titles of some of the work completed or in progress: The control of molds on grafted grape cuttings; study of the organisms causing swelling of cans of fruit; yeasts, molds, and bacteria of California grapes; nature of morphological changes due to "little leaf diseases of the vine"; methods of retaining the flavor of fruit jellies; methods of preserving fruit for museum specimens; utilization of culls of semi-tropical fruits; the manufacture of unfermented apple juice; effects of temperature of sterilization and concentration of sugar on the flavor of canned fruit and vegetables.

Publications.—The results of the above investigations have been published in a series of reports, bulletins, circulars, and miscellaneous publications of the Agricultural Experiment Station.

Preliminary Requirements.—A graduate student must fulfill all the requirements of graduation in this division, or in closely related courses approved by the instructor. For research in viticulture these courses must include Viticulture and Enology 116 and 117; in Enology 112 and 115, or equivalent courses which in the judgment of the instructor are necessary.

Doctor of Philosophy.—Two years' practical experience in one of the industries represented by the division is required for the degree of Doctor of Philosophy, in addition to the usual requirements.

GRADUATE COURSES

233. Research in Viticulture.

BIOLETTI.

237. Research in Zymology.

BIOLETTI and CRUESS.

299. Thesis for the Master's Degree.

UPPER DIVISION MAJOR COURSES

112. Fruit and Vegetable Products.	CRUESS.
115. Fruit and Vegetable Products Laboratory.	CRUESS.
116. Viticulture.	BIOLETTI.
117. Ampelography and Viticultural Laboratory.	BONNET.

GRADUATE SCHOOL OF TROPICAL AGRICULTURE AND CITRUS
EXPERIMENT STATION

J. T. BARRETT, Professor of Plant Pathology, Acting Director of Citrus Experiment Station.

The Graduate School of Tropical Agriculture and Citrus Experiment Station is located at Riverside in the southern part of California. This is in the center of the citrus region, and being about midway of the state east and west is convenient to all of the various sub-tropical and tropical industries of the state.

For several years the University has maintained in Southern California the Citrus Experiment Station at Riverside and the Southern California Pathological Laboratory at Whittier. In 1913 these institutions were united and money appropriated by act of the Legislature for the purchase of the necessary land and the erection of suitable buildings to provide for the enlarged institution. A tract of 477 acres, located two and one-half miles from the city of Riverside, has been purchased for the purpose. The land is considerably higher than the city toward which it gradually slopes, and ranges from 1000 to 1400 feet above sea-level.

Buildings.—New laboratory buildings have been built and are now occupied. They are especially designed as research laboratories and are supplied with standard equipment, such as water, gas, electric light, electric power, compressed air and vacuum.

Orchards and Farms.—Aside from the new site which is in course of development and planting, the University has twenty-four acres in the edge of Riverside at the old Station site. This tract is devoted to: first, citrus fertilizer tests; second, trial of citrus rootstocks; and third, trials of cover crops. These experiments have been under way for nine years and are showing interesting results. Another experiment consisting of ninety-eight plats, is under way near Riverside on a twenty-five year old grove for the purpose of demonstrating the value of various fertilizers, methods of cultivation, and irrigation in the rejuvenation of an old run-down citrus grove. Other experiments, carried on in coöperation with growers are under way in various localities. The field work

enables students to gain a first-hand knowledge of experimental methods and furnishes many special problems for investigation.

Climatic Conditions.—The climatic conditions at Riverside are highly favorable for graduate work on problems connected with tropical and sub-tropical agriculture. It is possible here to grow a very large range of crops. In addition to many tropical and sub-tropical fruits, the majority of temperate zone crops can be produced here. The region is semi-arid, irrigation being required in the growth of most crops. The institution is, therefore advantageously located for the study of problems related to irrigated agriculture. Probably nowhere in the world have the methods of irrigation reached higher perfection than in the citrus industry of Southern California. The Laboratory site is immediately surrounded by cultivations of citrus fruits, avocados, olives, apricots, peaches, pears and Persian walnuts. Nearby areas are devoted to the cultivation of wheat, oats, barley, and other dry-land crops. The climatic conditions are such that plants grow throughout the entire year, there being only a slight lessening of growth during two months of the winter period. Probably nowhere in the United States could a region be selected more favorably situated for the study of problems connected with sub-tropical agriculture and horticulture.

Library Facilities.—There is a good working library which is being enlarged as rapidly as possible. The Riverside Carnegie Library, containing many agricultural works, is regularly open for the use of students. Special works are obtainable when required, from the University Library at Berkeley.

Publications.—The results of the investigations and researches carried on at the Citrus Experiment Station are published in the regular series of bulletins of the College of Agriculture, and in the agricultural science series of the University publications. These publications will furnish facilities for the printing of special researches carried on by students.

Research.—In the organization of the Graduate School of Tropical Agriculture and Citrus Experiment Station, the following subjects are represented at the present time: agricultural chemistry, entomology, orchard management, plant breeding, plant pathology, and plant physiology. The institution is organized primarily for research, and no regular courses of lectures are given. Student instruction will be carried on primarily as special courses in investigation. The various lines of work will enable graduate students, if desired, to select their major and minor subjects in different but related fields. The institution is especially fitted to superintend graduate work in the various horticultural lines. Instruction is in large measure given through seminars and special reading courses connected with the investigations.

Residence at the Graduate School at Riverside is considered as residence at the University, and all of the work required for the master's or doctor's degree can be taken at this institution. Applicants whose undergraduate training is deficient in the special fields elected, will be expected to secure such preparation at Berkeley or elsewhere. The degrees are conferred by the University of California, and the requirements are the same as for students in residence at Berkeley. Students contemplating residence for work in the Graduate School of Tropical Agriculture should communicate with the Dean of the School before filing their formal applications for admission with the Recorder of the Faculties. Post office address is Citrus Experiment Station, Riverside, California.

AGRICULTURAL CHEMISTRY

Professor: W. P. KELLEY.

Instructor: E. E. THOMAS.

Facilities.—The laboratory equipment includes ample facilities for a wide range of investigation. Facilities are being provided for research on the chemistry of soils, the chemistry of fertilizer action, the biochemistry of soils, and the chemistry of plants and plant products. The site of the institution affords many interesting problems in soils. Emphasis is laid on fundamental studies in the chemistry of soils, the action of various fertilizers on soils, and alkali questions. The biochemistry of soils and plants and the chemistry of insecticides and the fungicides present many interesting problems for study.

Requirements.—A thorough knowledge of general, physical, and organic chemistry is required. In addition a general knowledge of plant physiology is desirable.

Research.—Students may elect agricultural chemistry as a major or minor course for the master's or doctor's degree.

ENTOMOLOGY

Professor: H. J. QUAYLE.

Facilities.—Facilities are afforded for the study of citrus and semi-tropical fruit insects. Deciduous fruits are also represented in the vicinity of the Station as well as field and forage crops, the insect pests of which have not been studied under the conditions here represented.

In the equipment for field experimentation are included a large capacity, high power spraying machine, several smaller spray pumps, a

set of fumigation tents, the latest type of portable gas generator, two fumigatoriums, and other accessories. The laboratory is equipped with the usual binocular and compound microscopes, photographic apparatus, incubators, a constant temperature room, dark room, et cetera.

Preliminary Requirements.—Prospective students must be graduates of colleges of recognized standing where full courses have been taken in entomological and allied subjects.

Research.—Citrus insects have furnished the field for much of the economic entomological work of Southern California. As a consequence there are many promising problems in other fields which have not been touched, as well as further work in the citrus field. Students may elect entomology as a major or minor subject for the master's or doctor's degree.

ORCHARD MANAGEMENT

Professors: L. D. BATCHELOR, B. S. VAILE.

Instructor: W. E. GOODSPEED.

Southern California presents many unique problems and practices in orchard management and economics. The region tributary to the laboratory offers especially favorable opportunity for research along the following lines: coöperation in marketing, in purchase of supplies, and protection against insect pests and frost; the economic development of new orchard acreages or the opening of new sections for orchard purposes; the most desirable size of orchard units; the value of specialized orcharding as against more diversified farming; the relations under field conditions between yield and various cultural practices; the efficiency of orchard labor and machinery; orchard accounting and record keeping.

Graduate courses and research projects will be arranged as desired.

PLANT BREEDING

Instructor: H. B. FROST.

Facilities.—The facilities for graduate instruction and research include: laboratory equipment for biometrical, histological, and cytological work; ample nursery and orchard facilities for the cultivation of plants and the study of variation; an extensive collection of fruit, nut, and ornamental plants, which is rapidly being assembled on the experimental grounds; and the reference library which includes numerous books, periodicals and bulletins in the field of genetics and related subjects. The proximity of the institution to extensive agricultural and horticultural

tural industries facilitates the study of varied and extensive problems, the crops readily accessible for study including the principal citrus and deciduous fruits, the olive, the walnut, the almond, and various field crops. Further, the wide range of soil and climatic conditions existing in the valleys and mountains about Riverside specially facilitate the study of adaptation with both wild and cultivated plants.

Research.—The department has taken up a study of variation and adaptation with the Persian walnut, and extensive hybridization work with citrus fruits; work on mutation and heredity in certain annual plants is also under way. This, and similar work that may be undertaken with fruits, nuts, field crops, ornamentals, or other plants, will furnish material for graduate instruction and research.

Preliminary Requirements.—Preliminary training should include a thorough preparation in biology and the fundamental principles and technique of genetics.

Master's Degree.—For the master's degree a combination of research work in plant-breeding with plant physiology, plant pathology, or entomology will be accepted.

Doctor of Philosophy.—Subject to the general requirement for the degree of Doctor of Philosophy, the department suggests the following grouping:

(a) Major, plant breeding; minor or minors, plant physiology, plant pathology, entomology, or chemistry.

(b) Plant breeding as a minor in connection with a major in any of the subjects mentioned under (a).

PLANT PATHOLOGY

Professors: J. T. BARRETT, H. S. FAWCETT.

Instructor: C. O. SMITH.

Facilities.—The new plant pathology laboratories will offer excellent facilities for research; they are well lighted and furnished with modern equipment, such as compound and binocular microscopes, electric sterilizer, incubators, hot-plates, microscope lamps, autoclaves, and steamers. A modern photographic room and dark room equipped with photographic and drawing apparatus, and stand and field cameras, are provided.

The laboratories are surrounded by, or in close proximity to, extensive plantings of semi-tropical and deciduous fruits, nuts, and field crops grown under varying conditions, which continually furnish many important and interesting plant disease problems for investigation. The mild

climatic conditions make it possible to prosecute work out of doors throughout the year.

Preliminary Requirements.—Preliminary training should consist of a thorough preparation in general botany, including special training in plant physiology, mycology, and bacteriology, and some experience in the technique related thereto. Good training in organic and inorganic chemistry is desirable.

Research.—The research activities, although largely devoted to citrus diseases, extend to practically all fruit crops. Some of the projects under way or recently completed are: crown gall; cottony rot of lemons; black pit of lemons (bacteria); gum diseases of citrus; Melaxuma of walnut; walnut blight; mottle leaf of citrus; heart rot and root diseases of citrus; citrus fruit spots and rots; internal decline of lemons; fruit spots and rust of stone fruits. Many miscellaneous diseases are being observed, some of which are always suitable for special investigation.

PLANT PHYSIOLOGY

Professors: H. S. REED, A. R. C. HAAS.

Facilities.—The department is housed in new laboratories well equipped with modern apparatus including dark room for plant culture, room for constant temperature work, ovens, incubators, glassware, reagents, et cetera. Experiments on plants can be conducted in the field through the entire year. Provision for the culture of plants under shelter is also a feature of the equipment. The rapidly growing semi-tropical plants may be advantageously used for many physiological studies.

Requirements.—Applicants are advised that thorough fundamental knowledge of the principles of botany, chemistry, and physics is a prerequisite for research work in plant physiology.

Research.—The department offers opportunity for research work in plant physiology leading to the master's or doctor's degree. The principal problems under investigation or contemplated are: the principles of pruning horticultural plants; action of inorganic poisons upon plants; plant metabolism and enzyme action; the factors influencing the development of the native flora of Southern California; special topics in plant physiology.

ANATOMY

Professors: H. M. EVANS, V. E. EMMEL, R. O. MOODY, P. E. SMITH.

Instructor: K. J. SCOTT.

Facilities.—The anatomical laboratory is equipped for research work in the broad field embraced by the development and structure of the higher vertebrates. Systematic attention to the descriptive anatomy of man is so influenced by the comparative and embryological viewpoints, and these in turn by physiological considerations, that the department may be described as concerned with the general principles of mammalian morphology. The experimental and "dynamic" aspects of the subject are given attention and so far as is possible dominate the work in histology, hematology, neurology and microscopic organology. Animal colonies are maintained for this purpose.

Embryological collections are being assembled and kept in fireproof storage. Ample facilities for wax plate reconstruction and for all the usual methods of embryological study are at hand.

While the department is temporarily occupying quarters which are not ideally suited to its purpose, it expects to move in the near future to an ample fireproof home in the projected building to be devoted to the medical sciences at the Parnassus site in San Francisco.

The department library contains complete sets of the more important morphological periodicals and monographs.

Research.—The scope of research activity in the Department is indicated by the titles of the following recent publications:

On the segregation of macrophage and fibroblast cells by means of vital acid dyes and on the cause of the differential effect of these substances; the macrophages of mammals; on the origin of the corpus luteum of the sow from both granulosa and theca interna; the relation of mitochondria to granules of the vital azo dyes; the pigmentary, growth and endocrine disturbances induced in the Anuran tadpole by the early ablation of the pars buccalis of the hypophysis; observations regarding the erythrocytic origin of blood platelets; a study of the erythrocytes in a case of severe anemia with elongated and sickle-shaped red blood corpuscles; on the teaching of anatomy and the inculcation of scientific ideals; the B. N. A. arranged as an outline of regional and systematic anatomy; collaboration in the preparation and publication of a manual of surgical anatomy for the U. S. Army and Navy; a study of coagulation in embryonic blood.

Some problems upon which work is being done are: the physical characteristics of solutions of vital stains; the cycle of follicular atresia in mammals, studied by means of vital stains; on the so-called macrophage reaction following the introduction of various substances into the blood-stream; studies on the reaction to acid aniline dyes shown by the placenta and the embryo at various periods of development; the relation of various endocrine glands to ovulation in mammals; oestrus and ovulation in the rat; on the histogenesis of the corpus luteum and the correlation of its cellular structure with the stages of the reproductive cycle; a comparative study of certain cellular elements in the blood of urodeles and mammals; on certain factors involved in the blood-forming activities of the embryonic mammalian liver; on the lymphocytic reaction of the blood-forming organs under experimental conditions.

GRADUATE COURSES

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| 209. Human Embryology. | EVANS. |
| 211. Haematology | EMMEL. |
| 212. Experimental Embryology. | SMITH. |
| 213. Original Investigation. | EVANS and Staff. |
| 214. Seminar. | The Staff. |

UPPER DIVISION MAJOR COURSES

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| 101. Histology and Microscopic Organology. | EVANS, SCOTT and PRATT. |
| 102. General Human Anatomy. | MOODY. |
| 103. Organs of Special Sense and Neurology. | SMITH and SCOTT. |
| 105. Systematic Human Anatomy. | EMMEL, MOODY and SIMPSON. |
| 108. Regional and Topographical Anatomy. | MOODY. |
| 109. Anatomy for Physicians and Advanced Students. | EVANS, EMMEL, MOODY, and SMITH. |

ANTHROPOLOGY

Professors: A. L. KROEBER, P. RADIN.

Facilities.—Anthropology and related subjects are well represented in the University Library, which contains probably the largest assemblage of anthropological books and journals in the western half of the country. While not exhaustive, the materials are present for an intensive study of almost any field. The equipment is increasing, and provision can be made for special additions in almost any line of anthropological study. Some of the very notable material in the Library of Pacific Coast History (Bancroft Collection) is of an ethnological nature, and offers an unsurpassed field for original work.

The department possesses a full equipment of anthropological apparatus—psychological, phonetic, photographic, anthropometric—now available for field work, besides five thousand unpublished photographic negatives and nearly two thousand original phonograph records of Indian music and speech. It is possible for students to combine library and museum study by making use of certain selected collections kept in the building on the University campus known as the Berkeley division of the Museum, or the larger collections in San Francisco. Work at either center is counted as residence at the University.

As regards facilities for field work in anthropology, the University occupies a unique position. Many living tribes as well as ancient sites are readily accessible from the University, and Indians are frequent visitors at the Museum. Advanced students have frequently been provided in the past with opportunities for direct ethnographical, linguistic, and archaeological experience in the field.

Research.—For research in ethnography, material culture, or archaeology, the extensive collections of the University's Anthropological Museum are available and convenient. The administration of the Museum is in the hands of the department and every facility can be given for the prosecution of studies. The Museum itself is the largest, in anthropology, west of Chicago, and one of the six largest in America. While temporarily lodged in a three-story building at the Affiliated Colleges in San Francisco, the collections are in large part on display and in a favorable situation for study—in many ways rather more conveniently arranged, in fact, than if they were on permanent exhibition or in storage. The most noteworthy assemblages in the Museum are in the line of Egyptian, Classical, and Peruvian antiquities, and the ethnography

of the California Indians. From other regions there are less extensive collections, and almost every part of the world has some representation.

Publications.—The results of the work done in the department have been embodied in a series of publications (University of California Publications in American Archaeology and Ethnology), of which fourteen volumes have been issued, while others are in preparation. These volumes consist in part of work done by graduate students.

Higher Degrees.—The work which has fallen under the supervision of the department embraces such a wide variety of topics that it is almost impossible to specify any particular preparation as being most useful. For the physical side of anthropology, training in palaeontology, zoology, and comparative anatomy is most essential. For work in linguistics or cultural anthropology, appropriate subjects will suggest themselves. Students who plan to become candidates for higher degrees should consult with the department regarding their proposed plans of work.

GRADUATE COURSES

206A-206B. Seminar.	The Staff.
207A-207B. Special Research in Anthropology.	The Staff.
299. Thesis for the Master's Degree.	_____

UPPER DIVISION MAJOR COURSES

103A. Ethnography: Oceania and Africa.	RADIN.
193B. Ethnography: Europe, Asia, America.	RADIN.
104. Prehistoric Archaeology.	RADIN.
105. Ethnology of North America.	GIFFORD.
137. Indians of California.	KROEBER.
138. Ancient Egypt.	GIFFORD.
144. Field Methods.	KROEBER.
145. Ethnology of Mexico and Central America.	RADIN.
199A-199B. Honor Course.	The Staff.

SCHOOL OF ARCHITECTURE

Professors: J. G. HOWARD, Director of the School of Architecture; W. C. HAYS, M. E. CUMMINGS, W. C. PERRY.

Instructor: R. W. JEANS.

Lecturer: W. E. LELAND.

Facilities.—The School of Architecture offers opportunities for graduate work in planning and composition, advanced design, research work, and professional practice and business relations. Students may do thesis work for a master's degree, for the degree of Doctor of Philosophy, or for the degree of Graduate in Architecture, as their preparation may qualify them for such study. There is in the Architecture Building a reference library of over eight hundred and fifty volumes, accessible to the students at all times.

Preliminary Requirements.—The following is a list of the subjects which should be completed before full graduate standing in the school can be attained:

I. Matriculation under group II;

II. In the lower division; English, Latin, history, modern foreign languages as required by the college chosen for junior certificate; mathematics 3A-3B, 4A-4B; drawing, 2A-2B; graphic art 14A-14B; physics 1A-1B; civil engineering 8B; and architecture 5A-5B, 11, 12A-12B, 13A-13B.

III. In the Junior and the Senior years: (a) Architecture 5C-5D, 12A-12B, 13A, 14A-14B, 101A-101B, 105C-105D, 106A-106B; Civil Engineering 117, 118A-118B, 127; Drawing, 105, 110. (b) Architecture 5E-5F, 12A-12B, 14A-14B, 102A-102B, 105E-105F, 106C-106D, 108A-108B; Civil Engineering 107E-107F, 108F, 115.

Graduate in Architecture.—In addition to full graduate standing in the School of Architecture, the following courses must be completed in order to meet the requirements for the degree of Graduate in Architecture: Architecture 203A-203B, 204, 206E-206F, 299A-299B, 209A-209B, 216; Civil Engineering 1E, 116.

The above program normally requires two years of study. However, only one year in residence as a graduate student is required, provided that the complete curriculum as outlined may be completed in this period of time.

Graduate Courses.—The special graduate courses given, including research work for the master's degree, are Architecture 203A-203B, 206E-206F, and 299A-299B. The prerequisites to these courses are Architecture 102 and 106.

GRADUATE COURSES

203A-203B. Planning and Composition.	HOWARD.
204. Advanced Design.	HOWARD.
206E-206F. Theory of Architecture.	HOWARD.
209A-209B. Professional Practice and Business Relations.	HAYS.
216. Graduate Thesis and Seminar.	HOWARD.
299. Research and Thesis for Master's Degree.	HOWARD.

UPPER DIVISION MAJOR COURSES

101A-101B. Elements of Architecture.	PERRY.
102A-102B. Planning.	HAYS.
105C-105D. Historical Drawings.	PERRY.
106A-106B. Theory of Architecture.	PERRY.
106C-106D. Theory of Architecture.	HAYS.
108A-108B. Architectural Mechanics.	LELAND.
110. Housing.	HAYS.

ASTRONOMY**BERKELEY ASTRONOMICAL DEPARTMENT**

(STUDENTS' OBSERVATORY, BERKELEY, CALIFORNIA)

Professors: A. O. LEUSCHNER, Director of the Students' Observatory,
R. T. CRAWFORD, S. EINARSSON, W. F. MEYER.

Facilities.—The equipment of the observatory consists of the following instruments: An eight-inch reflector suitable for visual and photographic observations, gift of the Hon. Wm. M. Pierson; a six-inch refractor with position micrometer; a five-inch refractor, gift of Mr. and Mrs. Herman Oelrichs; a six-inch photographic telescope and a five-inch photographic telescope with a three-inch guiding telescope, all equatorially mounted with driving clocks; a three-inch equatorial without driving clock; a Bamberg prismatic transit with self-registering micrometer; a three-inch Davidson combination transit-and-zenith telescope; a two-inch transit; a two-inch altazimuth instrument; two surveyor's transits with solar attachments; spectroscopes; a Pickering photometer; a Repsold engine for measuring astronomical photographs; a Gaertner microscope for measuring spectrograms; electro-chronographs; a Harkness spherometer; a level-trie; six sextants; three chronometers, a Riefler Sidereal clock; a Howard Mean Time clock; and all necessary electric connections for recording time and determining longitude by the telegraphic method.

The University Library and the library of the Students' Observatory contain an excellent collection of standard and current works in all branches of astronomy, including complete sets of most of the astronomical periodicals and publications of learned societies

Research.—The principal researches of the Berkeley Astronomical Department at the present time are in celestial mechanics, with special reference to the numerical accuracy of the various methods of determining disturbed and undisturbed orbits. The equipment permits of practically all classes of astronomical observations not requiring especially powerful telescopes.

Every graduate student is expected to participate in the calculation of one or more preliminary orbits of newly discovered asteroids, comets, or satellites. The department makes it a practice to provide orbits and ephemerides for all new or returned comets. A computing bureau for the investigation of the perturbations of the minor planets discovered by Watson has been maintained under the direction of Professor Leusch-

ner at the Students' Observatory for a number of years by the Watson Trustees of the National Academy of Sciences. The principal investigations under way for the next year are the completion of the work on the Watson asteroids, by Professor Leuschner; an investigation of the orbit of the Fifth Satellite of Jupiter, by Professor Crawford; an investigation of the orbits of the Trojan group of minor planets, by Professor Einarsson.

Publications.—The results of the researches are published chiefly in the *Bulletins of the Lick Observatory* and as volume VII of the *Publications of the Lick Observatory*, and consist of observations and orbit determinations by all members of the staff and by graduate students. Among these may be mentioned particularly: the orbit of the Seventh Satellite of Jupiter by R. T. Crawford and A. J. Champreux; the orbit of the Eighth Satellite of Jupiter by R. T. Crawford and W. F. Meyer; the orbit of Halley's comet, by R. T. Crawford and W. F. Meyer; discovery, observations, and orbit of the Ninth Satellite of Jupiter by S. B. Nicholson, an account of his discovery of this satellite and of the determination of its orbit by Leuschner's method; an investigation of the orbit of (132) Aethra, the so-called "lost asteroid," by D. Alter; short methods of determining orbits by A. O. Leuschner; contributions to the theory of refraction by R. T. Crawford and to the methods of measuring star-plates by B. L. Newkirk. Tables of twelve Watson planets are published by A. O. Leuschner in Volume X of the *Memoirs of the National Academy of Sciences*.

Preliminary Requirements.—Students who desire to pursue graduate work in astronomy towards a higher degree are advised to include at least the following courses in their undergraduate curricula: general physics, including laboratory practice; general chemistry; mathematics through calculus; analytic mechanics; general and practical astronomy, equivalent to the courses 103A-B and 104A-B; least squares.

In addition to the foregoing courses, those intending to do special graduate work in celestial mechanics should include in their curricula: theory of interpolation and mechanical quadratures, differential equations, advanced calculus, theory of orbits.

For those intending to specialize in astrophysics the following subjects are advised in addition to the general list: physical optics, polarized light, electric discharges through gases, theory of orbits.

For those intending to pursue work in geodesy the following subjects are advised in addition to the general list: surveying, summer class in plane surveying, differential equations.

A knowledge of the subject matter of one of these groups of courses is essential as a basis of study for a higher degree, with astronomy as major subject,

In general, the completion of one of the three groups is prerequisite to graduate work in the Lick and Berkeley Astronomical departments.

The chief aim of the department is to train students for professional careers in astronomy and geodesy. Many of the graduates from the Lick and Berkeley departments are to be found in the faculties of universities, in large observatories either as astronomers or assistants, and in the United States Coast and Geodetic Survey.

High School Teacher's Recommendation.—See School of Education.

Master's Degree.—The program of study for a master's degree must include, in addition to one of the three specified groups of undergraduate study, the usual minimum of eight units of strictly graduate work, including the thesis.

Doctor of Philosophy.—If offered as a minor for the degree of Doctor of Philosophy, the minimum requirement in astronomy is general and practical astronomy, 12 units, and at least 12 additional units of upper division and graduate courses in astronomy. Related courses in mathematics or physics may be offered in partial fulfillment of the requirements.

The general scope of the graduate work at Berkeley for candidates for the Degree of Doctor of Philosophy in astronomy is as follows:

1. Major subject: celestial mechanics (theoretical astronomy); minor subjects: mathematics and physics.

Differential equations, hypergeometric series; partial differential equations; theory of functions, elliptic functions; spherical harmonics; Lamé's and Bessel's functions; definite integrals; theory of refraction; eclipses; theory of light; dynamics of rotation; precession and nutation; theory of orbits (continued); advanced practical astronomy; perturbations; celestial mechanics.

II. Major subject: astrophysics; minor subjects: physics and mathematics.

Differential equations (elements); partial differential equations; theory of functions or elliptic functions; electricity; heat as a form of energy; special advanced study and research, especially spectroscopic; theory of orbits (continued); advanced practical astronomy; introduction to celestial mechanics and perturbations.

III. Major subject, geodesy; minor subjects: physics and mathematics.

Map projection; partial differential equations; either theory of functions or elliptic functions; physical optics; electricity; dynamics of rotation; special advanced study and research (weights and measurements); higher surveying; geography; advanced practical astronomy and geodesy; higher geodesy, including the mathematical theory of the figure of the earth.

GRADUATE COURSES

206-207. Theory of Orbits.	LEUSCHNER.
†208A-208B. Celestial Mechanics.	LEUSCHNER.
†209. Special Perturbations.	CRAWFORD.
†210A-210B. The General Perturbations of the Minor Planets after Hansen, Newcomb, and Hill.	CRAWFORD
†211A-211B. Theory of Perturbations after Bohlin, Gylden, and Brendal.	LEUSCHNER.
†212A-212B. Satellite Theory and Introduction to the Lunar Theory.	CRAWFORD.
†213A-213B. Selected Topics in Celestial Mechanics.	LEUSCHNER.
214. Advanced Practical Astronomy.	EINARSSON.
215. Advanced Study and Research.	The Staff.
†218. Mathematical Theories in Higher Geodesy.	CRAWFORD.
†219. Physical Theories in Higher Geodesy.	CRAWFORD.
299. Thesis for the Master's Degree.	

UPPER DIVISION MAJOR COURSES

103A-103B. General Astronomy.	EINARSSON.
104A-104B. Practical Astronomy.	LEUSCHNER.
107. Method of Least Squares.	EINARSSON.
108. Introduction to Interpolation, Use of Tables, and Mechanical Quadratures.	EINARSSON.
110. The Theory of Astronomical Refraction.	CRAWFORD.
112. Eclipses	CRAWFORD.
114A-114B. Practical Astronomy.	EINARSSON.
116. Measurement and Reduction of Astronomical Photographs and Spectrograms.	EINARSSON.
117. Astrophysics.	MEYER.

COURSES IN OTHER DEPARTMENTS

Dynamics of Rotation. (See Physics.)
 Precession and Nutation. (See Physics.)
 Spectroscopy. (See Physics.)
 Railway, Highway, and Canal Surveying. (See Civil Engineering.)
 Higher Surveying and Geodesy. (See Civil Engineering.)

† The courses form a series which the student can complete in about three years. From two to three of these courses are offered each term, the selection being based on the needs and the preparation of the graduate students in astronomy.

LICK ASTRONOMICAL DEPARTMENT

(LICK OBSERVATORY, MOUNT HAMILTON, CALIFORNIA)

Astronomers: W. W. CAMPBELL, Director of the Lick Observatory; R. H. TUCKER, R. G. AITKEN, W. H. WRIGHT, H. D. CURTIS, G. F. PADDOCK, (Santiago, Chile).

Associate Astronomer: J. H. MOORE.

Secretary: MRS. A. G. MARSHALL.

History of the Lick Observatory.—The Observatory was founded by James Lick by a deed of trust dated September 21, 1875. This deed devotes the sum of \$700,000 to "the purpose of purchasing land and constructing and putting upon such land . . . a powerful telescope, superior to and more powerful than any telescope yet made; . . . and also a suitable observatory connected therewith." The deed further provides that "if, after the construction of said telescope and observatory, there shall remain of said \$700,000 . . . any surplus," the surplus shall be invested and that "the income thereof shall be devoted to the maintenance of said telescope and the observatory connected herewith, and shall be made useful in promoting science, and the said telescope and observatory are to be known as the Lick Astronomical Department of the University of California." The gift of Mr. Lick was accepted by the Regents December 7, 1875.

Location.—Mr. Lick had already, in August, 1875, selected Mount Hamilton, in Santa Clara County, as a site for the Observatory. Land for the site (1345.80 acres) was granted by Act of Congress in 1876; 191.49 acres were granted to the University for the use of the Observatory in 1878; a tract of 40 acres was added by gift of R. F. Morrow, Esq., in 1886; 320 acres were granted by the Legislature in 1888; a second Congressional grant, comprising 599.94 acres, was added in 1892; the Regents of the University purchased 40 acres additional in 1901, 240 acres in 1902, and 125.42 acres in 1904. The total area is 2902.65 acres.

Buildings and Instruments.—The Observatory consists of a main building, containing computing rooms, library (of 7700 books and pamphlets), and the domes of the 36-inch equatorial and the 12-inch equatorial and of detached buildings to shelter the Crossley reflector, the meridian circle, the transit, the portable equatorial, the Crocker and the Floyd photographic telescopes. A fire-proof building was completed in 1909. It contains vaults for the storage of astronomical negatives, observations

and other records of value, and instruments temporarily not in use, together with photographic dark rooms and photographic and spectrographic laboratories. On the grounds are dwelling houses for the astronomers, students, and employees, and shops for the workmen. The Observatory is well provided with instruments, some of which are enumerated below.

Thirty-six inch Equatorial—Objective by Alvan Clark and Sons, mounting by Warner and Swasey. This instrument has also a photographic corrector of 33-inch aperture, figured by Mr. Alvan G. Clark.

Three-foot Reflecting Telescope—Presented to the Lick Observatory in 1895 by Edward Crossley, Esq., of Halifax, England. The large mirror of this instrument is by Sir Howard Grubb. An entirely new mounting has been constructed. The building was erected from funds subscribed by citizens of California.

Twelve-inch Equatorial—By Alvan Clark and Sons.

Six and a half-inch Meridian Circle—Objective by Alvan Clark and Sons, mounted by Repsold.

Six and a half-inch Equatorial—Mounting by Warner and Swasey.

Six and a half-inch Bruce Comet Seeker—Objective by Brashear, mounting made at the Lick Observatory.

Six-inch Crocker Photographic Telescope—Objective by Willard, refigured by Brashear, who provided the mounting also.

Five-inch Floyd Telescope—Presented by Mrs. Peter Gopcevic (Miss H. A. L. Floyd); interchangeable photographic and visual objective by Alvan Clark and Sons.

Five-inch Horizontal Photoheliograph—By Alvan Clark and Sons.

Four-inch Transit—Objective by Alvan Clark and Sons, mounting by Fauth and Co.

Four-inch Comet Seeker—By Alvan Clark and Sons.

Two spectroscopes, especially adapted for photography; presented by Hon. D. O. Mills, for use with the 36-inch refractor.

Two photometers for use with the 36-inch and 12-inch telescopes, provided from the proceeds of a gift from the late Miss C. W. Bruce, of New York City.

Thirty-six and a half-inch Cassegrain Reflecting Telescope, with modern dome and 3-prism, 2-prism, and 1-prism spectrographs, the gift of Hon. D. O. Mills, for use on an astronomical expedition to the southern hemisphere. This expedition is now at work on the summit of San Cristobal, in the northeast suburbs of Santiago, Chile.

Sensitive seismographs, presented by Hon. W. R. Hearst.

Research and Publications.—The entire equipment of the Lick Astronomical Department is devoted to research work. The principal programs at present relate to spectrographic measurement of the radial velocity

of stars, micrometric measurement of double stars, satellites, and comets; meridian circle determinations of the apparent positions of stars; photographic observations of nebulae, star-clusters, satellites, and comets; and a qualitative analysis of stellar and nebular spectra.

The results of investigations are published in the *Publications of the Lick Observatory*, Volumes I to XII, *Contributions from the Lick Observatory*, Volumes I to V (this series is now discontinued), *The Lick Observatory Moon Atlas* (discontinued), and the *Lick Observatory Bulletin*. Volumes I to X. Numerous shorter papers have been published in various scientific journals. Volume VII of the *Publications* and many numbers of the *Bulletin* relate to investigations made by the Berkeley Astronomical Department.

Several additional volumes, including those on Nebulae, on the Radial Velocities of Stars, on Halley's comet and on the results of the Lick Observatory solar eclipse expeditions from 1893 to 1914, are in preparation.

Lick Fellowships in Astronomy.—The Regents have established salaried fellowships in the Lick Astronomical Department. These usually permit the holders to pursue studies and undertake investigations in fulfillment of requirements for the degree of Doctor of Philosophy. It is essential that each successful applicant shall be a graduate of a college or university of high standing and shall have decided to make astronomy or one of the related sciences the basis of a professional career. Applications should be made to the Director of the Lick Observatory.

Martin Kellogg Fellowship.—A fellowship in the Lick Astronomical Department has been endowed by Mrs. Louise W. B. Kellogg in memory of her husband, Martin Kellogg, deceased, whose services to the University of California as Professor and President covered nearly half a century.

The purpose of the Martin Kellogg Fellowship is to provide opportunities for advanced instruction and for research to students who have already received the degree of Doctor of Philosophy, or to members of the staffs of observatories. Preference will be given to qualified applicants who may desire to pursue formal studies or researches in the Lick Astronomical Department, or in the Lick and Berkeley Astronomical departments, and to members of the Lick Astronomical Department who may desire to undertake work in another university or observatory; but it is possible that opportunities will arise to award this fellowship, in cases of special merit, without restrictions as to the places of residence of applicants and holders. The stipend per annum is variable in amount and would aim to cover the necessary expenses of travel and residence. Applications, including outlines of proposed plans and estimates of necessary expenses, should be made in writing to the Director of the Lick Observatory.

Appointments will usually be made for the period of twelve months, beginning with August 15th of each year. Applications for the year 1921-22 are invited.

Special Assistants.—On the recommendation of the Director and with the approval of the President, persons with experience in astronomical investigation may occasionally be received at the Lick Observatory, to act as assistants in definite researches then in progress. These assistants, serving without pay, will be assigned to such duties as will be advantageous both to the Observatory and to themselves. Opportunity for making independent researches will be available only in exceptional cases.

Special Investigators.—It occasionally occurs that eminent investigators from other institutions desire to utilize the exceptional advantages of the Lick Observatory, for the solution of special problems. Opportunity for such researches will be provided in case no interference with the regular program of work would arise therefrom.

Regulations Regarding Students at the Lick Observatory.—At the Lick Observatory graduate instruction in astronomy is offered by the Director and the Astronomers, in connection with the investigations in which they are engaged, or which may be specially assigned to the students by the Director. Graduate instruction at the Lick Observatory is restricted, as a general rule, to students qualified to be on the footing of astronomical assistants. Such graduate instruction in astronomy as is not carried on at the Lick Observatory is conducted at Berkeley, together with all of the undergraduate instruction in this subject.

Applicants for admission to the Lick Observatory must qualify before the Graduate Council as graduate students of the University. Applicants are advised to file their applications with the Dean of the Graduate Division at Berkeley before May 1st.

As many graduate students as can be furnished accommodations at Mount Hamilton, without expense to the University, may pursue astronomical studies at the Lick Observatory; and in return for the accommodations they will be required to execute such computations, et cetera, as are assigned to them.

It is usually advantageous for students to choose their time of residence at the Lick Observatory in the period from May to December.

Higher Degrees.—Graduate students enrolled in the Lick Astronomical Department of the University may become candidates for the degrees of Master of Arts and Doctor of Philosophy. For specific information on the requirements for these degrees see the statement by the Berkeley Astronomical Department.

Candidates holding fellowships in the Lick Astronomical Department are usually required to spend one term each year in graduate work at

Berkeley. The place of residence is assigned by the Director of the Lick Observatory on consideration of the needs of the Observatory work, and of the courses of instruction available at Berkeley, after consultation with the heads of the related departments of the University. In all other cases the term of residence at Mount Hamilton and at Berkeley is determined by the proper committee for each individual candidate.

Quarters for Students.—Comfortable quarters (partly furnished) are allotted to students at the Observatory. The cost of board and service per month for each student need not exceed \$45.00. Each student should bring with him the linen for his room, blankets, et cetera, and should also provide himself with the text-books which are constantly needed: Young's General Astronomy, Campbell's Practical Astronomy; Bruenow's Lehrbuch der Sphaerischen Astronomie, or Chauvenet's Spherical and Practical Astronomy; Watson's Theoretical Astronomy, Oppolzer's Bahnbestimmung, Klinkerfues' Buchholz's Theoretische Astronomie, or Bauschinger's Bahnbestimmung; standard six-, five-, and four-place tables, Crelle's Rechentafeln, et cetera. All injuries to apparatus must be made good at the student's expense, and students are expected to provide the larger part of the chemicals used in their practice of photography.

Intending students will do well to communicate with the Director of the Observatory before filing their formal applications for admission with the Recorder of the Faculties. The postoffice address is Mount Hamilton, Santa Clara County, California.

BIOCHEMISTRY AND PHARMACOLOGY

Professors: W. R. BLOOR, C. L. A. SCHMIDT.

Instructors: E. S. SUNDTROEM, G. W. CLARK, G. L. B. FOSTER.

Facilities.—The department is well equipped for advanced work and research and an opportunity is offered to any properly qualified student of the University to undertake a well considered investigation in any field of biochemistry. The joint library of the departments of biochemistry and physiology contains complete sets of all the important biochemical, pharmacological and physiological journals and the more important text-books and monographs on biochemistry and related subjects.

Research.—During the current year workers have been engaged in investigations on the chemistry and metabolism of the proteins and fats, on the phosphoric acid compounds of the blood, saliva and urine, on the calcium, sulphur and sugar of the blood and on chemical and other phases of adaptation to environment. The results are recorded in part in the University publications and in part in various biochemical and related journals. These lines of investigation are to be continued during the coming year.

Higher Degrees.—Students who intend to become candidates for a higher degree in this subject should bear in mind that biochemistry is an outgrowth of biology on the one hand and of chemistry on the other and that therefore their undergraduate course should be planned so as to obtain a good preparation in both. Modern development of the science calls especially for a good knowledge of physical chemistry, quantitative analysis and physiology and for a reading knowledge of French and German. All candidates for higher degrees must have completed Biochemistry 101 or its equivalent with credit.

High School Teachers' Recommendations.—Candidates are referred to the latest announcement of the School of Education.

Master's Degree.—The candidate makes specific arrangements with the member of the department in charge of his work. In general he should proceed with course 201 (preparations, methods, reading) until he has satisfied his instructor that he has sufficient practical skill and knowledge of the literature to proceed. He is then given a small piece of work to carry out, ordinarily under direction, which shall be used as a basis for his master's thesis. Other work in kind and amount should be taken under advice of the instructor.

Doctor of Philosophy.—The degree is conferred only on the basis of demonstrated ability to plan and carry out original investigation. Mere careful routine work under direction, no matter in what amount can not be accepted in satisfaction of the requirements for the degree. The preliminary requirements for the higher degrees, noted previously, apply particularly to candidates for the doctorate. Minors should be taken in either or both biology (including physiology) and chemistry. The preliminary examination covering the candidate's knowledge of his major and minor subjects should be taken as early in his course as possible (since this examination determines to a great extent the candidate's fitness to proceed further). The examination is generally oral.

GRADUATE COURSES

- 201. A course of advanced preparations and methods, together with much reading, especially of the current literature intended to prepare the student for investigative work.
- 210. Research in Biochemistry.
- 211. Research in Pharmacology.
- 212. Seminar in Biochemistry.
- 299. Thesis for Master's Degree.

UPPER DIVISION MAJOR COURSES

- 101A–101M. Biochemistry.
BLOOR, SCHMIDT, SUNDESTROEM, FOSTER, and Assistants.
- 102M. Pharmacology. CLARK and Assistants.
- 110. Advanced Biochemistry. BLOOR, SCHMIDT, SUNDESTROEM, FOSTER.

SCRIPPS INSTITUTION FOR BIOLOGICAL RESEARCH

Resident Biologists: WM. E. RITTER, F. B. SUMNER, E. L. MICHAEL, W. E. ALLEN, C. ESSENBERG.

Hydrographers: GEO. F. McEWEN, N. W. CUMMINGS.

Business Manager: W. C. CRANDALL.

Curator and Collector: P. S. BARNHART.

Librarian: MRS. C. ESSENBERG.

• Assistant Librarian: TILLIE GENTER.

Location.—The institution occupies a 177-acre "pueblo lot" situated on the ocean front, about sixteen miles north of the center of San Diego City, and two miles north of the suburb of La Jolla. Both suburb and institution are within the corporate limits of the city.

Although this site on the open ocean, considerably isolated from human habitations and transportation facilities, has introduced rather difficult and expensive elements into the problems of development, the great and unique advantages of the location for researches on the life of the open sea and on the sea itself, which researches have a central place in the institution's scientific program, and the further advantage of ample ground on which to build, fully justify the hazards that have been taken.

Housing and Equipment.—At this time the chief buildings are: a fire-proof research laboratory capable of accommodating about twenty-five investigators, the laboratory rooms on the first floor, seven in number, being equipped with salt water aquaria made of concrete and plate glass, and a circulatory system of lead and hard rubber, so that nothing corrodable is in contact with the sea-water; a two story, fire-proof, library building, which, for several years to come, will house both the library and the zoological and oceanographic museums; a reinforced concrete 20,000-gallon salt water tank with tank house; a 1,000-foot concrete pier extending out to water eighteen feet deep at mean low tide; an electric motor pumping system for salt water, the pump being located at the outer end of the wharf in order that the purest, most normal ocean water is obtained; a 40,000-gallon storage tank of reinforced concrete, at the base of the sea cliff under the wharf; 970 feet of retaining wall for the sea cliff, about half of which is concrete; a mouse house, or "murarium" of wood, but entirely isolated, with living quarters for about 1000 mice; a public aquarium building of wood containing nine-

teen concrete tanks with plate glass fronts; twenty-eight residences for the "colony"—scientists, assistants, workmen, et cetera—associated with the institution; garages, service houses, et cetera.

Library.—The library, which is growing rapidly, contains approximately 7000 bound volumes and 10,000 pamphlets well catalogued and shelved. More than 1000 volumes were added during the last year. The list of current journals, although by no means complete, is extensive and contains those of most importance.

Boats and Work at Sea.—The "Kemah," the private yacht of Mr. E. W. Scripps, will do the collecting for the institution at sea; and at the ocean end of the pier there are facilities for making local collections of water and animals, and instruments also for observing automatically tides, currents, temperatures, and salinities.

Research.—Being a research institution with a definite, continuous program restricted to a few fields, no formal courses are given, and special inducements to students are offered only for the particular researches being prosecuted by the resident research staff. Students are accepted for these researches on the theory that they will become collaborators with the staff investigators and will be of as much use to the institution as the institution will be to them. The fields of investigation open on this basis are: several aspects of physical oceanography, with Dr. McEwen; several cognate problems of pelagic life, with Mr. Michael, Mr. Allen, and Dr. Essenberg; work in the taxonomy and distribution of a few groups of marine animals, with Dr. Ritter, Mr. Michael, Mr. Allen, Dr. Essenberg, or Mr. Barnhart; certain problems of the growth of organisms, with Dr. Ritter; certain problems of heredity and environmental influence, with Dr. Sumner; and certain aspects of the logic of biology, with Dr. Ritter.

For further description of these investigations see bulletins mentioned under the heading *Publications*.

While the oceanographic studies were undertaken primarily for the purpose of learning the environment of marine organisms, in the main the attainment of that purpose has been reached by carrying on the investigations much as they would have been had the primary aim been oceanography itself.

The main studies have been on the temperature and density of the sea water in the San Diego region, though considerable attention has been given to the movements of the water and the air and to evaporation. Great numbers of observations have been made during the fourteen years since definite work of this sort began, and many conclusions have been reached as to the seasonal, monthly, and daily distribution of temperatures and densities on the surface of the sea and to depths of 1000 fathoms.

The observations have been treated in the light of Ekman's theory of oceanic circulation with the general result that the theory has been confirmed in respect to this part of the Pacific Ocean. And, as a more special result, the idea of "up welling" water on the coasts of the continental land masses of the earth has received important confirmation and extension. Mr. McEwen has been engaged for some time on a mathematico-physical consideration of the absorption of the sun's heat by the sea, and some of his results are published. Considerable attention has also been given to the effect of the oceanic conditions of the Pacific upon the climate of western North America.

The great field of investigation being here touched upon obviously belongs more to physicists and physical geographers than to biologists; and a goodly number of students in these sciences might profitably participate in some of the work being done at the institution.

The attention of biological students is called to the fact that while investigations like those of Dr. Sumner on mice and those of Mr. Michael and Mr. Allen on planktonic organisms appear on the face of the statements to be wholly different from each other, as a matter of fact this is not so. The main axis, as one may say, of the institution's research program is the relation of organisms to their natural environments. This implies that quantitative studies of both organisms and environment must be made. Much of the greater part of the work of this sort so far carried out has been on pelagic organisms. Mr. Michael and Mr. Allen are the only ones here mentioned in connection with these researches, because, being the only resident members of the research staff whose main effort is devoted to it, they would naturally be the ones upon whom the direction of student work in this field would fall. But Dr. Esterly, and Professor Kofoid and his assistants, have contributed largely to the results thus far reached. So far as concerns the collection and treatment of environmental data, the methods employed in investigating aquatic and terrestrial organisms (of the latter only the mice being used by Dr. Sumner have thus far been extensively treated at the institution), are the same in principle. And students contemplating studies in this domain are asked to take special note of the large part the handling of statistics has in the investigations.

Investigation in systematic, or taxonomic, biology is fundamental to the biological conceptions on which the institution's program is based. This is so because the moment the study of the relation of organisms to their natural environment becomes rigorously quantitative, it is found that the results for a group of the same kind of individuals, that is, for a species, cannot be assumed to hold exactly for any other species. This necessitates a study, as nearly exhaustive as possible, of every species both structurally and functionally. Under the latter head

falls the reaction of the organisms to their environment. Hence it is seen that the researches mentioned under the various heads as given above are intimately related.

The problems of growth referred to concern the primal quantitative relation of homonomous, repetitive parts in the same organism, as for example, the leaflets in a compound leaf and the leaves of a single branch produced by a single growth period. Another form of statement is that the problem is that of the proportionality of parts of a homonomous organic series.

The heredity aspect of Dr. Sumner's investigations has for its main aim the old and much debated question of the inheritance of acquired characters. As is known to all who are acquainted with Sumner's previous investigations in this field, he does not believe the prevalent tendency in biology to consider the case closed against the "Lamarckian factor" in evolution, as the phrase has it, is justified by the evidence. Mice were chosen for the researches in order that whatever results are reached, they may have the highest probability of being valid for man also. And wild rather than domestic mice were chosen in order to get light on the hereditary influence of natural environment.

The aim of studies in the "logic of biology" is to bring to book various mental operations and habits always used in biology, with a view to gaining greater firmness and consistency in procedure, and confidence in conclusions than have hitherto characterized biological investigation and teaching.

The mental technique of observation, description, naming, definition, and classification; the employment of hypotheses and doctrines; and the practical use of the ideas of cause and effect, quality and quantity, and structure and function, are matters specially needing critical examination.

With increased facilities for both scientific work and living at the institution, there is more justification for encouraging students to come to La Jolla than there has been heretofore; and experience is proving that very profitable and pleasant arrangements can be entered into on the basis here indicated.

Students who contemplate coming to La Jolla for study are urged to plan for at least a year's continuous work. Not much headway can be made on a research problem in less time.

Correspondence with the Scientific Director should be entered into by prospective students some time before a decision is made, in order that a definite understanding may be reached as to what the student's wishes are, and as to the work and facilities available. The facilities of the institution can be used to the best advantage only when due consideration is given the question of whether the visitor's needs would

fall in with the natural advantages of the region and the policies and equipment of the institution.

Students who look forward to coming to La Jolla for work, are asked to specially note the large place quantitative methods have in most of the investigations and, consequently, the importance of experience in mathematics.

Publications.—For the present most of the technical results of biological investigations are published in the *University of California Publications in Zoology*, but a number of biological journals are made use of to some extent.

There being no series of University publications specially appropriate for the results of the investigations in oceanography, each paper in this field is published in whatever journal seems most suitable and is most available.

The publications mentioned below, are selected to illustrate the account given under the head *Research*, of what has been and is being done in the several provinces there enumerated: *preliminary report on the hydrographic work carried on by the Marine Biological Station of San Diego* (G. F. McEwen), is illustrative of the investigations in oceanography, although nothing has yet been published on what is being done in some important aspects of the subject; *classification and vertical distribution of the chaetognaths of the San Diego region, et cetera* (E. L. Michael), may be regarded as typifying the researches on the distribution and natural movements of pelagic organisms, but *diurnal migration of Calanus finmarchicus in the San Diego region during 1909* (C. O. Esterly) may also be cited as an example of the problems and methods in the field referred to above; *vertical distribution of the Chaetognatha of the San Diego region, in relation to the question of isolation vs. coincidence* (E. L. Michael); *a discussion of the species characters in Triposolenia, I; the nature of species characters, II; the adaptive significance of species characters, III; the coincident distribution of related species* (C. A. Kofoid), may be mentioned as illustrative of the more general biological bearings of these investigations.

The character of taxonomic investigation, practiced at the institution, is illustrated by the papers of Michael and Kofoid already cited; by several of Esterly's papers on the copepoda of the San Diego region; by Kofoid and Swezy's monograph on the unarmored Dinoflagellata; and by *Halocynthia johnsoni*, n. sp.; *a comprehensive inquiry as to the extent of law and order that prevails in a single animal species* (W. E. Ritter).

Under the heading, certain problems of growth, two papers have been published, *a quantitative study of the development of the salpa chain in Salpa fusiformis runcinata* (Myrtle E. Johnson) and *the growth and differentiation of the chain of Cyclosalpa affinis Chamisso* (W. E. Ritter and M. E.

Johnson), and a chapter (XVII) is devoted to the subject in *The Unity of the Organism* (Ritter).

The experiments in heredity have not gone far enough to reach results on the main problem, but a preliminary report, *genetic studies on several geographic races of California deer-mice* (F. B. Sumner) has just appeared. Dr. Sumner's earlier work on the seeming inheritable effects of unusual temperatures on white mice show something of the type of work, for example, *some studies of the environmental influence, heredity, correlation and growth in the white mouse* (F. B. Sumner).

Dr. Ritter's main writings, which deal with the mental side of biological investigation, are contained in the following books published by Richard G. Badger, Gorham Press, Boston: *The higher usefulness of science; the probable infinity of nature and life; and the unity of the organism or the organismal conception of life*.

A full bibliography of papers pertaining to work which was done either wholly or partly by the institution previous to 1912 is contained in *The Marine Biological Station of San Diego, its history, present conditions, achievements and aims* (Univ. of Calif. Publ. Zool., 9, 1912). A supplementary bibliography of papers is now in process of preparation by the library department. *The Hydrographic, Plankton, and Dredging records of the Scripps Institution*, etc., by E. L. Michael and G. F. McEwen (Univ. of Calif. Publ. Zoology, 15, 1915) present in detail the field activities of the institution, so far as the sea is concerned.

Admission to the Institution.—Graduate students of the University of California are entitled, by virtue of their enrollment in the Graduate Division of the University, to the privileges of the Scripps Institution, subject to acceptance by the staff of the institution.

Applicants for admission not already enrolled as graduate students of the University must first qualify as university students of this status. They should file their applications with the Recorder of the Faculties at Berkeley.

In very exceptional cases undergraduates may be admitted for special work. Students of this class should first correspond with the Scientific Director of the institution as to their wishes and qualifications; and, should it be deemed by the staff that the applicants are qualified for the work they wish to do, they should then make the necessary arrangements with the Recorder of the Faculties at Berkeley and the Scientific Director of the institution.

Higher Degrees.—Students at the institution not already candidates for the master's or doctor's degree by virtue of their status in the University may become candidates; but all official arrangements to this end must be made through the Dean of the Graduate Division at Berkeley.

The address of the Scientific Director, is Wm. E. Ritter, La Jolla, California.

BOTANY

Professors: W. A. SETCHELL, W. L. JEPSN, N. L. GARDNER, T. H. GOOD-SPEED, F. J. SMILEY.

Facilities.—The equipment of the botanical department is fairly complete, permitting of a wide range of studies. It includes the following collections:

1. A phaenogamic herbarium of over 170,000 sheets of mounted specimens and a large quantity of unmounted material which is available for use by responsible investigators. The flora of Western America is here better represented than in any other collection, which permits of satisfactory work in preparing revision or monographs of these plants. The economic section contains representatives of the more common cultivated plants, particularly of those grown in California.

2. Cryptogamic herbarium consisting of over 27,000 mounted sheets. The representation of the west coast algae is undoubtedly the most complete in existence. These collections, together with the ease with which marine forms may be collected, render the study of cryptogams, and particularly of algae, very satisfactory.

3. A botanical museum containing valuable sections of woods, bark, cones, et cetera, available for class and research work.

4. A botanical garden where native plants are grown and where cultural experiments may be carried on by qualified students.

5. A working library of over 1200 volumes is placed in immediate connection with the herbarium. This includes general works, floras, monographs, and journals connected with the work in systematic botany. The University Library contains, in addition, many others, as well as a fairly considerable collection of books upon physiological botany, ecology, and genetics.

6. The botanical laboratories are moderately equipped with microscopes, microtomes, glassware, chemicals, et cetera, for study along the several lines represented by the courses offered. A beginning has been made also for the study of experimental physiological botany.

Publications.—Facilities for the publication of research along botanical lines is afforded by the University of California Publications in Botany. This series is in its seventh volume.

Preliminary Requirements.—Preliminary to undertaking full graduate work, students should have completed at least 15 units of major work

in botany with their prerequisites. It is essential in many cases that the preliminary training include also chemistry, physics, advanced mathematics, and also a reading knowledge of French and German. Latin is very desirable for those who intend to specialize along any line of systematic botany. Courses in physiology, plant pathology, and zoology may be included to advantage.

Graduate Courses.—Graduate courses in this department are primarily courses for research. They are offered along the lines of Cryptogamic Botany, Phaenogamic Botany, Plant Physiology, Vegetable Histology and Cytology, Ecology and Geographic Distribution, and Economic Botany. Students in graduate courses are expected to attend and take part in the Botanical Seminar where papers are read and results of investigations and current literature are discussed.

Research.—The various lines of research carried on by members of the department and by advanced students embrace systematic botany, plant physiology, histology, cytology, ecology, studies in genetics, geographic distribution and economic botany. The investigations now under way including the following: geographical distribution of the marine algae (W. A. Setchell); marine algae of the Pacific Coast of North America (W. A. Setchell); development of the sporophore of *Schizoplyllum* (W. A. Setchell and F. M. Essig); taxonomic investigation of Californian Liliaceae (W. L. Jepson); study of the glands of *Calochortus* (W. L. Jepson); monographic revision of West American *Loti* (Alice M. Ottley); taxonomy of Californian Iridaceae and Orchidaceae (W. L. Jepson); cultural and herbarium studies of *Rilies* species in Western America (S. Wyckoff); taxonomy of California Juncaceae (W. L. Jepson and Elizabeth Ferguson); studies of West American *Lupini* (Helen Bergfried); cultural and taxonomic studies of *Berberis* in North America (W. L. Jepson and Anna E. Ehlers); taxonomy of *Phacelia* (W. L. Jepson and Docia Patchett); reaction of *Arctostaphylos* to chaparral fires (W. L. Jepson); revision of Californian Cyperaceae (K. K. Mackenzie and W. L. Jepson); marine algae of the Pacific Coast of North America (N. L. Gardner); flower-size studies in *Nicotiana* hybrids (T. H. Goodspeed and R. E. Clausen); cytological studies on *Nicotiana* hybrids (T. H. Goodspeed); factors influencing germination of tobacco seed (T. H. Goodspeed); sterility in *Nicotiana* hybrids (T. H. Goodspeed and R. E. Clausen); studies on *Trillium* (T. H. Goodspeed); origin and distribution of rubber in West American shrubs (T. H. Goodspeed); cytological studies on *Torreya californica* (Helen Bergfried and T. H. Goodspeed); cytological studies on the *Sequoias* (Mildred Crane and T. H. Goodspeed); abscission of flowers and fruits in the genus *Vitis* (T. H. Goodspeed and Mildred Crane); abscissional responses in *Nicotiana* (John N. Kendall); phototropic responses in *Fucus* and *Volvox* (Annie M. Hurd); factors

influencing the formation of adventitious roots (T. H. Goodspeed and S. K. Mitra); studies on the high mountain vegetation of California (F. J. Smiley); weed survey of California (F. J. Smiley); study of temperature control by slope exposure (Dolly C. Lutjeharms); studies on the flora of Mexico (T. S. Brandegee); monographic revisions of West American genera (Katherine Brandegee); studies in the relation of plants to hay fever (H. M. Hall); studies of West American plants as possible sources of rubber (H. M. Hall); field and garden studies of genera and species (H. M. Hall).

Publications.—The publications of recent date are as follows: parasitism among the Red Algae (1918) (W. A. Setchell); the marine algae of the Pacific Coast of North America. Part I. Myxophyceae (1919) (W. A. Setchell and N. L. Gardner); a flora of California, parts IV and V (1914) (W. L. Jepson), including a revision of Californian Polygonaceae; a revision of Chenopodiaceae of California; a revision of Amarantaceae of California; a critical review of Nyctaginaceae of California; a revision of Californian Portulacaceae; a revision of the Caryophyllaceae of California; critical taxonomic reviews of Platanaceae, Loranthaceae, Santalaceae, Aristolochiaceae, Saururaceae, Batidaceae, Aizoaceae, Certaphyllaceae, and Nymphaeaceae as occurring in California; new Pacific Coast marine algae, II and III (1918) (N. L. Gardner); new Pacific Coast marine Algae, IV (1919) (N. L. Gardner); an apparatus for flower measurement (1918) (T. H. Goodspeed and R. E. Clausen); notes on the effects of illuminating gas and its constituents in causing abscission of flowers in *Nicotiana* and *Citrus* (1918) (T. H. Goodspeed, J. M. McGee and R. W. Hodgson); notes on the germination of tobacco seed, III (1919) (T. H. Goodspeed); method of replacing paraffin solvent with paraffin (1918) (T. H. Goodspeed); modified safety-razor blade holder for temperature control (1918) (T. H. Goodspeed); modification of hand microtome (1918) (T. H. Goodspeed); controlled pollination in *Nicotiana* (1918) (T. H. Goodspeed and Pirie Davidson); an account of the mode of foliar abscission in *Citrus* (1918) (R. W. Hodgson); abscission of flowers and fruits in the Solanaceae (1918) (John N. Kendall); an emergency supply of rubber (1918) (H. M. Hall and T. H. Goodspeed); walnut pollen as a cause of hay-fever (1918) (H. M. Hall); life-zone indicators in California (1919) (H. M. Hall and Joseph Grinnell); a rubber plant survey of western North America, parts I, II and III (1919) (H. M. Hall and T. H. Goodspeed); *Plantae Mexicanae Purpusianae*, IX (1919) (T. S. Brandegee).

Master's Degree.—Any one, or more, of the graduate courses may be offered toward the master's degree, taken in connection with the Botanical Seminar. The work of these courses may lead directly toward the preparation of the thesis.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy are expected to be proficient in the general lines of undergraduate work represented in the department and to choose their research work from one or more of the courses offered to graduates.

GRADUATE COURSES

225A-225B. Advanced Cryptogamic Botany.	SETCHELL.
226A-226B. Advanced Phaenogamic Botany.	JEPSON.
227A-227B. Advanced Vegetable Histology and Cytology.	GOODSPEED.
228A-228B. Advanced Plant Physiology.	GOODSPEED and SMILEY.
229A-229B. Advanced Economic and Geographic Botany.	SMILEY.
230A-230B. Botanical Seminar.	The Staff.
299. Thesis for the Master's Degree.	_____

UPPER DIVISION MAJOR COURSES

104A-104B. General Phaenogamic Botany.	JEPSON.
105A-105B. General Cryptogamic Botany.	SETCHELL.
106A-106B. Phycology and Mycology.	SETCHELL.
107A-107B. Pteridology and Bryology.	SETCHELL.
109. Vegetable Histology.	GOODSPEED.
110. Botanical Microtechnique.	GOODSPEED.
111. Vegetable Cytology.	GOODSPEED.
112A-112B. Special Taxonomic Studies.	JEPSON.
113A-113B. Taxonomy and Phylogeny of the Phaerogams.	JEPSON.
117. Principles of Plant Ecology.	SMILEY.
118. Plant Geography of the Pacific Coast of North America.	SMILEY.

CELTIC

Instructor: WILLIAM W. LYMAN, Jr.

102A-102B. Modern and Early Welsh.	LYMAN.
101A-101B. Advanced Modern Irish.	LYMAN.
201. Seminar in Old Irish.	LYMAN.

CHEMISTRY

Professors: G. N. LEWIS, Dean of the College of Chemistry and Chairman of the Department; E. O'NEILL, W. C. BRAY, J. H. HILDEBRAND, W. C. BLASDALE, MERLE RANDALL, C. W. PORTER, G. E. GIBSON, G. E. K. BRANCH.

Instructors: E. D. EASTMAN, T. D. STEWART, W. M. LATIMER.

Research Associates: F. R. BICHOWSKY, A. R. OLSEN, H. E. MILLER, W. H. RODEBUSH.

Facilities.—In addition to the laboratories devoted to the work of instruction, a new building, Gilman Hall, has recently been completed, devoted almost entirely to research work. An illustrated description of the building has been published (Randall, *J. Ind. Eng. Chem.*, 10, 634, 1918). This building has been designed and is being equipped with all possible attention to the needs of research work, and furnishes facilities for all types of advanced chemical investigation. The departmental library in Gilman Hall includes all of the important chemical journals and reference books. In addition to the university fellowships there are three fellowships now maintained for students of chemistry only. These are the Bruce Howard Memorial Fellowship, the DuPont Company Fellowship, and the Western Precipitation Company Fellowship.

Research.—Among the numerous lines of investigation carried on by the members of the department may be mentioned studies in the free energies of chemical substances; behavior of substances at low temperatures; the mechanism of reactions, both organic and inorganic; free radicals; the liquid state and laws of concentrated solutions; equilibria in salt solutions; reactions of the halogens and nitrogen compounds.

Publications.—The types of investigation in progress in the laboratories are further illustrated by the following list of publications by members of the department during 1918 and 1919:

A preliminary study of reversible reactions of sulfur compounds (G. N. Lewis and M. Randall); equilibrium in the reaction between water and sulfur at the boiling point of sulfur (G. N. Lewis and M. Randall); the heat capacity of electro positive metals and the thermal energy of free electrons (G. N. Lewis, E. D. Eastman and W. H. Rodebush); equilibria involving cyanogen iodide; the free energy of formation of cyanogen (G. N. Lewis and D. B. Keyes); the oxidizing power of cyanates and the free energy of formation of cyanides (G. N. Lewis

and T. B. Brighton); the vapor pressure of liquid metals (J. H. Hildebrand); the extraction of potash and other constituents from sea water bittern (J. H. Hildebrand); equilibria in solutions containing mixtures of salts. I. The system water and the sulfates and chlorides of sodium and potassium (W. C. Blasdale); the separation of the chlorides and sulfates of sodium and potassium by fractional crystallization (W. C. Blasdale); equilibrium in the reaction between water and sulfur at high temperatures (M. Randall and F. R. Bichowsky); the free energy of dilution of sulfuric acid (M. Randall and O. E. Cushman); equilibrium data on the polybromides and polyiodides of potassium (G. A. Linhart); the absorption spectra of the blue solutions of certain alkali and alkaline earth metals in liquid ammonia and in methylamine (G. E. Gibson and W. L. Argo); effect of sodium on mixtures of malonic and succinic esters (G. E. K. Branch and H. E. Branch); the specific heats at low temperatures of sodium potassium, magnesium and calcium metals, and of lead sulfide (E. D. Eastman and W. H. Rodebush); the freezing points of concentrated solutions and the free energy of solutions of salts (W. H. Rodebush); solubility: III relative values of internal pressure and their practical application (J. H. Hildebrand); the applicability of the precipitated silver-silver chloride electrode to the measurement of the activity of hydrochloric acid in extremely dilute solutions (G. A. Linhart); the volumetric determination of hydroxylamine (W. C. Bray, M. E. Simpson and A. A. MacKenzie); potentials of the zinc and cadmium electrodes (W. G. Horsch); the degree of dissociation of very dilute electrolytes (G. N. Lewis and G. A. Linhart).

Graduate Courses.—Higher degrees are not bestowed primarily upon the basis of fulfillment of formal unit requirements but rather on the basis of the ability of the student to do original work and independent thinking. Graduate instruction, therefore, does not consist of lectures but rather of seminar courses and research work. Students who are qualified begin the latter immediately. A weekly research conference attended by all the members of the department and graduate students is an important feature of instruction.

The preliminary requirements for higher degrees are essentially those covered by graduation with honors in the College of Chemistry. Students from other institutions may be required to take certain undergraduate courses, especially in physical chemistry and advanced inorganic chemistry. A knowledge of German is essential and a knowledge of French is highly desirable.

High School Teacher's Recommendation.—The requirements for a high school teacher's recommendation in chemistry are courses 1A-1B, 5 or 6A-6B, 9, 110, and three further units, which must ordinarily be course 120. An examination on the fundamental principles of chemistry may also be required.

Master's Degree.—The master's degree is given only to those who have devoted one full year to graduate work in chemistry or in approved allied subjects.

Doctor of Philosophy.—Students are admitted to candidacy for this degree after passing three oral examinations, namely, in inorganic, organic and physical chemistry. The purpose of these examinations is to determine the caliber of the student and to furnish the basis for guidance during his later work. The only other examination, except the examinations connected with seminar courses, is the final public examination for the doctor's degree.

GRADUATE COURSES

280. Graduate Research.	The Staff.
290. Seminar.	The Staff.
299. Thesis for the Master's Degree.	The Staff.
Research Conference (no credit).	

The topics of the seminars are announced at the beginning of each term. During the first term of 1919-20 the topic was "The Structure of Atoms and Molecules" (Lewis). For the second term the topics are "Thermodynamics" (Lewis). and "the Theory of Solutions" (Hildebrand).

UPPER DIVISION MAJOR COURSES

100. Organic Chemistry—Advanced Laboratory.	STEWART.
101. Organic Chemistry—Advanced Laboratory.	BRANCH.
102A-102B. Advanced Organic Chemistry.	STEWART.
110. Physical Chemistry.	EASTMAN.
111-111H. Physical Chemistry.	EASTMAN.
114H. Physical Chemistry—Thermodynamics.	GIBSON.
116H. Physical Chemistry.	GIBSON.
120-120H. Advanced Inorganic Chemistry.	BRAY.
†121-121H. Advanced Inorganic Chemistry.	BRAY.
122. Phase Rule.	BLASDALE.
124. Advanced Quantitative Analysis.	BLASDALE.
140A-140B. Technical Chemistry.	O'NEILL.
141. Chemical Technology.	RANDALL.
145. Chemical Technology.	RANDALL.
160. History of Chemistry.	O'NEILL.
179. Special Laboratory Work.	The Staff.
180H. Research Work.	The Staff.
199H. Special Problems.	The Staff.

† Not to be given, 1919-20.

CIVIL ENGINEERING

Professors: C. DERLETH, Jr., Dean of the College of Civil Engineering;
C. G. HYDE, F. S. FOOTE, A. C. ALVAREZ, A. J. EDDY, C. T. WISKOCIL,
W. F. LANGEIJER.

Instructors: C. J. NOBMANN, C. C. SWAFFORD.

Facilities.—The department has an excellent assortment of models and specimens of trade products. It has a museum of engineering materials and apparatus; also a special department library containing engineering reports and specifications of actual work, trade catalogues, and a large assortment of photographs and blue prints of existing European and American structures. These collections may be consulted by students. They are also drawn upon for illustration in the class-room. A collection of lantern slides of engineering apparatus and structures is in use by the department and represents mainly the fields of structural engineering, foundations, testing of materials, railroading, sanitation, irrigation, roads and pavements, surveying, and masonry structures.

For purposes of instruction both in the regular session at Berkeley and at the Summer School of Surveying held near Santa Cruz, California, the department has a supply of surveying instruments and auxiliary equipment. It has also a collection of drawing and computing instruments, such as planimeters, specialized slide rules, and railroad curves, for the use of upper division students.

The testing laboratory is fitted with apparatus to determine the elasticity and resistance of the materials used in engineering construction and for the inspection of cements and manufactured products. Testing machines of large capacity are available for practical tests of beams and columns. Facilities are offered for original investigation of the physical properties of the materials of engineering. The laboratory is provided with a well-equipped machine shop for shaping test specimens of metal or wood and for the manufacture of special apparatus.

Research.—The sanitary and municipal laboratories of the department afford facilities for routine and research work on problems relating to the determination of chemical, bacteriological, and physical properties of water, sewage, air, and municipal refuse. Apparatus is available for special studies of rainfall rates and run-off in streams and sewers. Practical problems in hydraulics, water and sewage purification, municipal refuse disposal, and ventilation can be studied either in the laboratories or elsewhere with the use of the laboratory equipment.

The road-materials laboratory is equipped to make investigations on macadam, brick, and asphaltic pavement materials.

The department staff, with the assistance of qualified senior or graduate students, has been conducting tests on reinforced concrete columns and beams, California timbers, the thermal expansion of concrete, vitrified clay and cement pipe, magnesium cement products, plain concrete, et cetera. Bulletins reporting these studies are in course of publication. There are many opportunities for qualified graduate students to engage in such investigations. The expense incurred is borne by the department. The program of work for any proposed problem is outlined by the instructor in charge.

Preliminary Requirements.—For complete graduate standing in civil engineering, a student must hold the degree of Bachelor of Science in that college of this University, or he must have completed a course of study formally accepted as an equivalent.

GRADUATE COURSES

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| 206. Civil Engineering Laboratory. | DERLETH, HYDE and WISKOCIL. |
| 220A-220B. Framed Structures. | DERLETH. |
| 221A-221B. Theory of Resilience and Deflections. | DERLETH. |
| 222A-222B. Sanitary Design. | HYDE. |
| 223. Laboratory Experiments. | DERLETH, ALVAREZ and WISKOCIL. |
| 224. Harbor Engineering. | ALVAREZ. |
| 225. Advanced Sanitary Engineering Laboratory. | HYDE and LANGELIER. |
| 299. Thesis for the Master's Degree. | |

UPPER DIVISION MAJOR COURSES

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| 102. Railroad Surveying. | FOOTE and NOBMANN. |
| 102c. Railroad Engineering Office Practice. | FOOTE. |
| 103. Summer Class in Railroad Surveying. | |
| FOOTE, ALVAREZ, EDDY, WISKOCIL, SWAFFORD, NOBMANN, and Assistants. | |
| 104A. Economics of Railroad Location. | FOOTE. |
| 104B. Railroad Construction and Maintenance. | FOOTE. |
| 105. Higher Surveying and Geodesy. | FOOTE. |
| 106. Highway Engineering. | HYDE. |
| 107A. Framed Structures. | EDDY. |
| 107C-107D. Framed Structures. | DERLETH. |
| 107E-107F. Framed Structures. For architectural students. | EDDY. |

108A-108B. Strength of Materials.	DERLETH, ALVAREZ, and EDDY.
108C-E-F. Civil Engineering Laboratory.	WISKOCIL.
109A. Sewerage Engineering.	HYDE.
109B. Sewage and Sewage Disposal.	HYDE.
110. Hydraulics.	HYDE.
111A. Water Supply Engineering.	HYDE.
111B. Character and Sanitation of Water Supplies.	HYDE.
112. Dams of Timber, Masonry, and Earth.	HYDE.
113. Foundations of Structures.	DERLETH.
114. Masonry Structures.	DERLETH.
115. Fire-proofing.	ALVAREZ.
116. Engineering Contracts and Specifications.	HYDE.
117. Framed Structures. For architectural students.	NOBMANN.
118A-118B. Strength of Materials. For architectural students.	EDDY.
119. Thesis for B.S. degree.	DERLETH and Staff.
123. Sanitary Engineering Laboratory.	LANGELIER.
124. Elementary Water Supply, Sewerage, and Municipal Wastes Engineering.	LANGELIER.
125. Plumbing, Heating, Ventilating, and Lighting.	LANGELIER.
126. Applied Sanitary Science and Municipal and State Sanitation.	HYDE.
127. Sewage Disposal and Water Supply.	LANGELIER.
128. Sanitary Engineering Laboratory for Students in Public Health.	LANGELIER.

DRAWING AND ART

Professors: H. KOWER, C. C. JUDSON, W. J. WYTHE, K. E. NEUHAUS,*
P. W. NAHL.

Instructor: R. J. BROWNER.

Facilities.—This department is housed in the building constructed to meet its needs. It contains six large drafting rooms and one small room, besides many offices. There is a large collection of drawings, models and lantern slides and a fair working library to supplement the large collection in the general library.

Scholarship.—There is the Bertha Henicke Taussig Memorial Scholarship for women, preferably students of art, architecture or literature, yielding \$400. In 1918 this scholarship was awarded to Miss Cleo Damianakes for graduate study in art in New York City.

Research.—In the graduate and seminar courses there is opportunity for research and for the production of creative work. In the past years the following investigations have been made: The analysis of the content of the drawing courses of the high schools of the state of California; the coordination of drawing courses with vocational training; the investigation of motion as applied in art; and original designs for mural decorations. During the present year, research is being made on the application of the drawing in the public schools as applied to the administration of the Smith-Hughes and the Smith-Lever acts.

Preliminary Requirements.—The completion of an approved under graduate major is the prerequisite for graduate work in this subject.

High School Teachers' Recommendation.—The Department aims to prepare those intending to teach both the subjects of freehand drawing and instrumental drawing. It is desirable that they be not entirely severed, that the teacher of one of the two subjects know something of the other and for this reason courses A-B and C are made common to both classes of candidates.

The minimum requirement in freehand drawing is, in addition to the above: Graphic Art 1A-1B; 6A-6B; 9; 14A-14B, or 114A-114B; 115; 116A-116B; or 117A-117B; 127A-127B; 128A-128B and 300. Students are advised to take Arch. 5 and 14A-14B.

Similarly for the recommendation in instrumental drawing; Drawing: 3A-3B-3C; 9; 125; and 300; Mechanics 6 and 106A; Arch. 11 and

* Absent on leave, 1919-20.

101A-101B; and C.E. 1E. Students are advised to take Drawing 10; 105; 107; 110 and Math. 113.

Master's Degree.—For the master's degree work will be planned according to the desire and ability of the candidate who specializes in different branches of the subject.

ENGINEERING DRAWING

GRADUATE COURSE

224A-224B. Seminar in Mechanical Drawing. KOWER, WYTHE, and BROWER.

UPPER DIVISION MAJOR COURSES

300A-300B. Teachers' Training Course in Instrumental Drawing.

WYTHE.

105. Graphostatics.

KOWER, WYTHE, and BROWER.

107A-107B. Construction.

KOWER.

109. Advanced Work in Lettering.

WYTHE.

110. Stereotomy.

KOWER.

125. Perspective.

WYTHE.

Courses in other departments: Mechanics 106A-106B, Architecture 101, Mathematics 113.

GRAPHIC ART

GRADUATE COURSES

*217A-217B. Advanced Color Study.

*218A-218B. Advanced Design.

228A-228B. Advanced Art Anatomy.

NAHL.

UPPER DIVISION MAJOR COURSES

300. Teachers' Training Course in Freehand Drawing.

NAHL.

114A-114B. Advanced Work in Freehand Drawing.

JUDSON.

115A-115B. Drawing from Model; Composition.

JUDSON.

116A-116B. Still-life Painting.

JUDSON.

117A-117B. Advanced Color Theory.

118A-118B. Advanced Design.

127A-127B. Art Anatomy.

NAHL.

128A-128B. Art Anatomy Practice.

NAHL.

Courses in other departments: Philosophy 136A-136B.

* Not given in 1919-20.

ECONOMICS

Professors: C. C. PLEHN, H. R. HATFIELD, S. DAGGETT, JESSICA B. PEIXOTTO, LUCY W. STEBBINS, Dean of Women; I. B. CROSS, SOLOMON BLUM, WARNER BROWN, F. R. MACAULAY.

Instructors: J. E. ARMSTRONG, E. A. KINCAID, FELIX FLÜEGEL, J. B. WASHBURN.

Lecturers: J. F. FORBES, BARBARA N. GRIMES, ROBERT HUNTER, C. C. STAEHLING.

Facilities.—The University Library is well supplied with works on economic subjects, and with official statistical publications of the chief commercial countries of the world. These materials, with the official trade documents of the San Francisco Custom House, afford opportunity for the study of the trade, resources, and economic geography of particular countries or ports. The unique collection of local materials in the Bancroft Library is available for research in the economic history of the Pacific Coast. A collection of state reports and documents on public finance, complete for the last nine years, and in some instances extending over a longer period, may be consulted in the private library of Professor Plehn. The statistical laboratory is well equipped with adding and computing machines.

Special facilities also exist near the University for the study of economic problems at first hand. San Francisco is the banking center of the coast; and the banking system here is peculiar because of the actual circulation of gold coin, direct Oriental and European exchange and crop movements practically continuous throughout the year. San Francisco is also the terminus of three great railways. The distance of California from the Middle West has given great importance to questions of transportation, and rate questions are continuously subjects of discussion. In 1911 a radical railroad regulation bill passed the California legislature, and since that time a large amount of material has accumulated which is of interest to students of railway economics. Mention may also be made of the completeness of labor organization in some parts of California and of its absence in others, of problems of seasonal labor, of the presence of newly opened oil fields free as yet from the control of the trusts, of irrigation plants, lumbering on a large scale, experiments in coöperation, and the like.

There is in the State today a definite and growing demand for trained men and women to administer charities and corrections. This is particularly true with regard to public charities and corrections. A new

point of view about official charity is making itself plain. County Boards of Supervisors and State officers are, when making changes, looking to the University for men and women to fill positions left open. Men are wanted as county relief officers, probation officers, for positions in prisons and reformatories, and as executive secretaries on various social commissions. Women are wanted as children's agents for state, county and private work, as well as for public and private health and case work. The majority of these positions command excellent salaries and offer, besides, a chance for constructive work that brings distinction to those who can do it. There is, likewise, a continued call for investigators trained to make social studies of various kinds. A year of graduate work in this field almost certainly assures a student of any ability a definite opportunity for a living and for some social distinction.

Two fellowships of \$500 each from the income of the Flood Foundation are awarded annually to graduate students in economics.

Research.—The department is especially well prepared to supervise research work at the present time in the following lines: public finance, economic geography, railroad economics, methods of accounting, labor problems, insurance, and preventive and constructive charity.

Publications.—The following list of publications in the Economic Series of the University of California Publications is a portion only of the research work accomplished since 1908, and will serve as a sample: Gold prices, and wages under the greenback standard (W. C. Mitchell); a history of California labor legislation, with an introductory sketch of the San Francisco labor movement (Lucile Eaves); women in trade unions in San Francisco (Lillian Ruth Matthews); a financial history of California (W. C. Fankhouser); jurisdictional disputes resulting from structural differences in American trade unions (Solomon Blum); the launching of the industrial workers of the world (P. F. Brissenden); business cycles (W. C. Mitchell).

High School Teachers' Recommendation.—Department requirements are stated in the announcement of the School of Education.

Master's Degree.—Candidates for the master's degree with a major in economics should include a course in advanced economic theory and a course in economic history in their programmes of study. In each case, the proposed programme must be submitted to the department for approval.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy are expected to make themselves generally familiar with the fields of economic theory, the history of economic theory, and economic history, and with a certain number of subjects in applied economics to be selected in consultation with the department. They are advised to include in their programme a course in statistical methods. Candidates will select some field for special study and will write the usual thesis.

Candidates for the degree of Doctor of Philosophy in other departments who desire to take a minor in economics are required to pursue a course of study to be approved by the department, which should embrace, besides fundamental courses in economic theory, such further work in economics as may properly relate itself to the candidate's major subject.

GRADUATE COURSES

200A-200B. Economic Seminar	PLEHN.
201A-201B. Conference in Economics.	CROSS and Staff.
202A-202B. Advanced Studies in Social Economics.	
202A-202B. Advanced Studies in Social Economics.	PEIXOTTO and SCHLEEF.
203A-203B. Advanced Studies in Social Economics.	PEIXOTTO and SCHLEEF.
204A-204B. Government Finance.	PLEHN.
205A-205B. Labor Legislation and the Labor Movement on the Pacific Coast.	BLUM.
299. Thesis for the Master's Degree.	The Staff.

UPPER DIVISION MAJOR COURSES

100. Economic Theory.	MACAULAY.
*101. History of Economic Thought.	MACAULAY.
102. Types of Economic Theory.	MACAULAY.
103. Methods of Economics.	MACAULAY.
*104. Economic Cycles.	MACAULAY.
*105. Advanced Economics.	MACAULAY.
106. Contemporary Theories of Social Reform.	PEIXOTTO.
109. Economic Environment and the Social Sciences.	BLUM.
110. Economic and Commercial History.	CROSS.
*111. Industrial History of the United States.	DAGGETT.
112. Modern Industrialism.	FLÜGEL.
120. Business Organization and Administration.	_____
121. Factors of Industrial Efficiency.	_____
122. Office Organization, Administration and Procedure.	_____
123. Markets and Marketing.	KINCAID.
125. Advertising.	BROWN.
*126. Agricultural Economics.	KINCAID.
127A-127B. Commercial Reviews and Trade Journals.	_____
301. The Teaching of Stenography and Typewriting.	ARMSTRONG.
130. American Financial Policy.	PLEHN.
131. Introduction to Public Finance.	PLEHN.

* Not given in 1919-20.

133. Corporation Finance.	HATFIELD.
134. Investments.	HATFIELD.
135. Elements of Money and Banking.	CROSS.
136. Foreign Exchange.	CROSS.
*137. Advanced Money and Banking.	CROSS.
140. Elementary Statistics.	MACAULAY.
141. Statistics in the Service of Business.	_____
142. Advanced Statistics.	MACAULAY.
*143A-143B. Economics of Insurance.	_____
*144. Life Insurance.	_____
*145. Property Insurance.	_____
146. Social Insurance.	GRIMES.
*147. Special Problems in Social Insurance.	_____
*148A-148B. Actuarial Science.	_____
150. Labor Economics.	BLUM.
151. Labor Organizations.	BLUM.
153. Industrial Goodwill.	BLUM.
*158. Economics of Immigration.	BLUM.
159. Employment Management.	CROSS.
160. Accounting Systems.	HATFIELD.
161. Cost Accounting.	FORBES.
162. Auditing.	FORBES.
†163A-163B. Advanced Accounting Problems.	HATFIELD.
164A-164B. Public Utility Accounts.	FORBES.
*165A-165B. Municipal Accounts.	FORBES.
300. Teachers' Course in Commercial Subjects.	_____
167. Partnership Accounting.	STAEHLING.
168. Fiduciary Accounting.	STAEHLING.
*169. Income Tax Accounting.	STAEHLING.
170. Staple Commodities of World Trade.	KINCAID.
173. Railway Economics.	DAGGETT.
*174. Railway Traffic.	DAGGETT.
*175. Railroad Regulation.	DAGGETT.
176. The History of Railroads in California.	DAGGETT.
178. International Trade.	_____
179. Ocean Transportation.	DAGGETT.
180. The Control of Poverty.	PEIXOTTO, and SCHLEEF.
181. Care of Dependents.	STEBBINS.
182. Studies in the Standard of Living.	PEIXOTTO.
*183. Crime as a Social Problem.	PEIXOTTO.

* Not given in 1919-20.

† Not to be given first half-year.

THE SCHOOL OF EDUCATION

Professors: A. F. LANGE, Director of the School of Education; R. G. BOONE, W. W. KEMP, C. E. RUGH, R. J. LEONARD, C. D. MEAD, J. V. BREITWIESER, W. S. THOMAS, R. S. FRENCH.

Instructor: J. S. BOLIN.

Teaching Fellows: H. W. EDWARDS, H. L. EBY.

Design of the School.—The term "School of Education" designates the professional courses intended:

1. For students preparing to become teachers in secondary schools and colleges;
2. For graduates of normal schools, who are making further preparation for teaching in elementary schools;
3. For students preparing to engage in school administration or to teach in normal schools or in university departments of education or to carry on research work in the field of education.

Faculty of the School.—The faculty of the School of Education consists:

1. Of the members of the department of education;
2. Of the professors or instructors in other departments who give professional courses that have been approved as such by the President and the department of education;
3. Of one member from each department or college or school representing a secondary school subject, but offering as yet no professional course, this member having been appointed by the President in consultation with the department concerned and the School of Education.

Admission to the School.—While many of the courses offered are open to college juniors, the prerequisite for formal admission to the School of Education is the completion of at least three full years of undergraduate work.

Facilities.—In response to numerous requests for opportunities for doing research work in absentia, for specific information regarding courses, for bibliographies, and for aid in school surveys, a Bureau of Research in Education is in process of organization. Consonant with the aim of this Bureau, members of the department are now engaged on two important school surveys, one of the Territory of Hawaii, one of the City of Hanford, California. A number of individual teachers have already undertaken advanced research studies under the guidance of the Bureau. Typical of these is a study of the educational work done

in prisons, with special reference to the California State Prisons. The Bureau can aid in this and similar studies, not only by suggestions, but by supplying bibliographies, outlines and other material aids.

The United States Bureau of Education has designated the University of California as a research center, through which the Federal Bureau will function in the gathering of data and carrying out of national research projects. The Secretary of the Bureau of Research will act as special collaborator under the Bureau of Education. Certain facilities of the Federal Bureau will be placed at the disposal of the School of Education. The coöperation of the Bureau of Research with the Federal Bureau promises to be very fruitful in results.

The University High School.—In the University High School of Oakland the department of education offers its students a splendid opportunity not only for observation but for first hand participation in the solution of actual school problems. The experimental possibilities of this school have been realized as yet only to a very limited extent. Along with the observational and student-teacher facilities, the proposed new plant of the school will incorporate features that will make possible intensive original research in present day educational problems as found in the secondary field. A point greatly to be emphasized in speaking of the University High School is that it forms an actual part of a city system and is not branded by invidious designations such as "training school" or "experimental school." Even as it stands the school is the greatest research asset of the department and School of Education. With the assured expenditure of \$300,000.00 on new buildings and additional equipment, it will soon enter upon a new phase of service and utility.

Library.—The education sections of the general library, together with the allied subjects represented in the same, offer fairly adequate resources in the study of the historical and theoretical phases of education. The department has in its offices and seminar rooms a very considerable collection of pamphlets, reports, theses and similar materials, not yet catalogued, but systematically arranged for the use of students.

The School of Education has largely taken as its motto: "Our laboratory is the schools." Students under the direction of the department of education are conducting studies in the school as laboratories. One student, for instance, is evolving and putting into practice a new plan of school discipline based on the idea that democracy should be extended to the process of education. This study promises to result not only in success in its experimental phases, but also in a vital contribution to educational thought on the theoretical side.

Useful as the conception may be that the School of Education should find its laboratory in the schools, certain phases of investigation demand

a laboratory in the narrower sense. Such a laboratory will be called into existence as soon as possible. It will contain all the materials and apparatus necessary for educational measurements, including computing devices for statistical work. Such a laboratory will accentuate the movement toward exact quantitative thinking in education. Education courses can no longer be given in an abstract-theoretical way by the lecture method. To train constructive educators, we must have the material means essential to such training.

Included in the laboratory equipment, there will be samples at least, if not considerable supplies, of all the tests, both of mentality and of subject matter, devised to date (and kept up to date). Some of these will constitute "museum" materials, as illustrative of educational history.

Fellowships.—At present two teaching fellowships are maintained out of the funds of the department of education. These fellowships are intended primarily to encourage research within the field of education, while offering their holders the opportunity to participate in the work of instruction within the department.

Research.—Some special research projects recently completed or under way are:

The organization of curricula (A. F. Lange); survey of the schools of the Hawaiian Islands (W. W. Kemp under the United States Bureau of Education); survey of the schools of Hanford, California (C. D. Mead and R. S. French); survey of teacher-training in schools for the blind of the United States (R. S. French); the education of the blind, critical and historical survey (R. S. French); survey of moral education in the schools of California, with special reference to civic education (C. E. Rugh); survey of instruction in the Berkeley elementary and junior high schools, involving the testing of between 5000 and 6000 pupils in five fields of work (C. D. Mead); survey of handwriting in Richmond, California, involving the testing of all pupils (C. D. Mead); testing of 800 Berkeley pupils in six subjects for comparison with Boston pupils of 1850 (C. D. Mead); survey of instruction by standard tests in Plumas, Nevada and Placer Counties (C. D. Mead); fusion and local sign in binocular vision (J. W. Breitwieser); psychological behavior as related to advertising (J. W. Breitwieser); seminar projects and studies in vocational education (R. J. Leonard); the influence of the frontier on education (J. S. Bolin); problems related to teacher-training in trade and industrial subjects and supplemental subjects in the Oakland Teacher Training Center (C. L. Jacobs); rural school administration (H. L. Eby); the status of rural education in California (H. L. Eby).

Publications.—The types of investigation now in progress are illustrated by the following list of some of the recent publications by members of the department:

The junior college as an integral part of the public school system (A. F. Lange); the junior college—what manner of child shall this be (A. F. Lange); new wine in new bottles (A. F. Lange); our preparedness program (A. F. Lange); the place of science in the training of boys and girls for personal efficiency and better citizenship (A. F. Lange); reorganization of the school system: the county unit (A. F. Lange); a research syndicate: a venture in professional study (A. F. Lange); the course of study for teachers in secondary schools (A. F. Lange); new function of the high school in the training of teachers (W. W. Kemp); a tentative moral code (C. E. Rugh); the self-improvement of teachers (C. E. Rugh); the method of experimentation, the method of progress (C. E. Mead); educational measurements (C. E. Mead); the effect of exempting pupils proficient in handwriting (C. E. Mead); the time sentence in education (J. W. Breitwieser); fundamental and accessory occupations (J. W. Breitwieser); the training and certification of teachers of supplemental subjects for day and evening vocational schools and classes in trades and industries (C. L. Jacobs); a tentative plan for the organization of a bureau of research in education (R. S. French).

Master's Degree.—The department of education has no special regulations regarding the degree of Master of Arts.

Doctor of Philosophy.—Those wishing to become candidates for the degree of Doctor of Philosophy with education as a major or a minor must consult with the special committee on the Ph.D. in the department. This committee consists of Professors Lange, Leonard and Breitwieser.

The Degree of Graduate in Education.—The preliminary training of the candidate for the degree of Graduate in Education is the same as that for the degree of Master of Arts.

AMOUNT AND DISTRIBUTION OF WORK—RESIDENCE

1. The candidate must have completed not less than four years of successful professional experience.

2. The candidate must complete two full years of graduate study of which one must have been spent at the University of California.

3. The candidate must complete a minimum of thirty-six units of upper division and graduate work distributed as follows:

(a) A minimum of twelve units of courses in education based on not less than twelve units of upper division major courses in education, and including at least four units of seminar work during the second year, this twelve units, together with professional experience and a professional thesis, to constitute the candidate's "major."

(b) A minimum of twelve units of advanced work in a minor.

(c) A professional thesis and an examination, both to be under the direction of the School of Education and both to be subject to the usual rules of the Graduate Council.

REGULATIONS OF THE STATE BOARD OF EDUCATION**CONCERNING CERTIFICATION FOR HIGH SCHOOLS**

Regular Certification by County Board of Education.—The law provides that the State Board of Education shall prescribe general rules under which county boards and city and county boards of education may grant regular certificates of high school grade.

This revision has been made in the interest of clearness, and to bring the California requirements into harmony with the best practice of other states and recent legislation. These regulations shall apply to all candidates receiving their university recommendations after January 1, 1919.

1. REQUIREMENTS

High school certificates may be issued by county and city and county boards of education under the provisions of the Political Code of California, to candidates who meet all of the following requirements, to wit:

(1) *Requirement of Bachelor's Degree.*—Each candidate shall have received a bachelor's degree from a standard college requiring not less than eight years of high school and college training.

(2) *Requirement of One Year of Graduate Study.*—Each candidate shall submit evidence that in addition to the academic and professional courses required for the bachelor's degree, he has completed at least one year of graduate study, doing full regular work, though not necessarily a candidate for a degree, in an approved graduate school as hereinafter defined (page00). Such graduate study shall include at least one full year course of advanced or graduate work in at least one of the subjects in which candidate expects to be recommended for certification.

(3) *Requirement of Fifteen Units of Work in Education.*—Each candidate shall also submit evidence that he has completed in undergraduate or graduate standing, or the two combined, not less than fifteen units (semester hours) of work, in courses listed in the department of education in the institution in which the graduate work is completed, or courses in other departments of that or other institutions accepted as preparation for teaching by the department of education. These fifteen units of work shall include the several courses in education hereinafter prescribed.

(2) *Full Regular Work.*—The department of education of the institution in which the graduate work is done shall define what constitutes full regular work, referred to in Requirement 2.

(3) *Work in Department of Education.*—The department of education of such institution shall have full charge of the acceptance of work of a professional nature referred to in Requirement 3.

RECOMMENDATIONS FOR TEACHERS' CERTIFICATES**1. GENERAL REQUIREMENTS**

All candidates for teachers' recommendation must comply with the following rules:

Oral English Requirement.—The recommendation for the regular or special high school certificate will be issued only to candidates having a command of spoken English adequate to purposes of instruction.

This requirement, the administration of which will be in the hands of a committee of the School of Education, may be met (1) by an examination; (2) by the successful completion of suitable courses in the department of public speaking; (3) by the successful completion of a special three-hour course, to be given by the department of public speaking; (4) by the successful completion of the platform exercises required in courses 120 and 121, section 2, in education; (5) by any other evidence satisfactory to the committee.

Health Certificate Requirement.—The recommendation for the regular or special high school certificate will not be issued until the candidate shall have presented a satisfactory certificate of health from the University Physician.

Approval of Schedules.—All applicants for recommendations must consult with the Director of the School of Education who passes upon all schedules before applications are filed in the office of the Graduate Division.

**2. REQUIREMENTS FOR THE RECOMMENDATION FOR THE HIGH SCHOOL
CERTIFICATE**

Candidates for the high school teacher's recommendation must complete the requirements specified by the State Board and by the department of education acting in accordance with the regulations of the State Board, as well as the following academic requirements:

1. A graduate course, other than a teacher's course, of not less than two units, in a department in which the candidate has completed not less than twelve units of major courses, or an equivalent.

2. A major and three minors or two majors and one minor; but on the recommendation of the School of Education one major and two minors or two majors may be accepted. In every case, however, two of the following divisions of university studies must be represented:

- (1) English.
- (2) Ancient foreign languages.
- (3) Modern foreign languages.
- (4) Philosophy, education.
- (5) History, political science, anthropology.
- (6) Jurisprudence.
- (7) Economics.
- (8) Mathematics, astronomy, physics, chemistry.
- (9) Geography, geology, mineralogy, palaeontology.
- (10) Botany, zoology, anatomy, physiology.
- (11) Pathology, bacteriology, hygiene, physical education.
- (12) Architecture, drawing, art.
- (13) Music.
- (14) Agriculture.
- (15) Engineering.
- (16) Home Economics (Household Science and Household Art).
- (17) Commerce.

A major shall comprise not less than a total of twenty-four units, and not more than a total of thirty units, of which at least twelve shall consist of major or graduate courses in one department, or of twelve units of correlated major or graduate courses in more than one department. Detailed statements in regard to majors in the several subjects may be found on pages 31-42 of the Announcement of the School of Education, 1919-20.

A minor shall comprise not less than six units of major courses in one department, which ordinarily implies not less than a total of twelve units including prerequisites. As far as the modern foreign languages are concerned minors of less than twelve units of major courses will not ordinarily be approved. A "minor (r)" denotes a "minor" plus a recommendation.

Major and minor subjects studied elsewhere may be designated on the recommendation form adopted by the State Board of Education, provided the name of the institution concerned is indicated also.

As far as the modern foreign languages are concerned, however, majors of less than eighteen units of major courses will not ordinarily be approved.

3. REQUIREMENTS FOR THE RECOMMENDATION FOR THE SPECIAL SECONDARY CERTIFICATE*

1. Candidates for the recommendation for a special secondary certificate must complete successfully the requirements in their chosen subject for a major for the general high school certificate.

* See pages 13-15 of the Announcement of the School of Education.

2. The recommendation of the department of education will be based in each case on the action of the School of Education through its committee on high school certificates.

4. REQUIREMENTS FOR THE RECOMMENDATION FOR CERTIFICATION FOR TEACHING SUPPLEMENTAL SUBJECTS†

NOTE.—Complete details concerning certification of secondary teachers, with all matters regarding exemptions, et cetera, will be found in the Announcement of the School of Education, 1919-1920, Part I.

Candidates for the recommendation for certification for the teaching of supplemental subjects are required to meet the requirements for either the high school certificate or for the special secondary certificate, and in addition the following:

Vocational Education.	5 units.
Include Education 160—Vocational Education.	
Elect any other Vocational Education Course.	
Teaching Technique. Education 163.	2 units.
Industrial practice. Education 164.	2 units.
Economic and Social Studies.	6 units.
Elect from the following:	
Econ. 150. Labor Problems.	
Econ. 151. Labor Organization.	
Econ. 111. Industrial History of the United States.	

UPPER DIVISION MAJOR COURSES

These have been so arranged as to cover the broader aspects of educational theory and practice, together with certain prerequisites in biology, psychology and sociology. The courses are so numbered as to show their fundamental content, as follows:

- 100-109. History of Education, general, secondary, elementary.
- 110-119. Basic biological, psychological and social aspects of education.
- 120-129. Theory of education, general, secondary, elementary, special moral.
- 140-149. Organization and administration of schools from elementary to university.
- 160-169. Vocational Education, general aspects, special branches.

† For complete details see special Bulletin of the School of Education entitled, "Requirements for Training and Certification for Teachers of Supplemental Subjects."

Of these courses a number are limited research courses, with provision for pro-seminar work and special emphasis on project study. This is notably true of those courses in which the numbers do not rise above thirty-five students, and in which, consequently, considerable attention may be given the individual student. The courses in the theory of education are specially designated to induce in the student sound fundamental thinking on educational problems. All the courses, in both the theoretical and practical aspects of education, aim at that open-mindedness which is the beginning of the scientific or research attitude. Education is nowhere presented with the dogmatic finality of a closed system.

Education 199 serves as an introduction to higher research work. An effort is made to have the students enrolled take up as their own certain educational problems which are varied and changed to suit different classes but which follow from year to year the most discussed and most vital issues of the day. As a pro-seminar course specifically so called, Education 199 leads over directly to the 200 group.

GRADUATE COURSES

Courses 200-210 are limited to less than twenty students each. Each course deals with some special phase of educational research. Those who have the opportunity to do so may elect direct field or laboratory projects; those whose limitations of scholarship or opportunity necessitate each assignment must, of course, limit themselves to what others have said and done, i.e., to library research, but even these students frequently accomplish excellent results by the critical and historical methods. In a number of the seminars the larger part of the enrollment consists of experienced teachers, who do notably splendid work in compilation, criticism and the construction of programs because of their own rich fund of experience. It is the purpose of the department to draw as many such thoroughly prepared research workers as possible into its courses.

Under Education 298 (Special Studies) there have been formed a few special research groups working with a single problem. One such group has undertaken, for instance, an extended study of the socialized recitation in the elementary schools. Another group, or rather series of groups, has taken in hand the practical workings of part-time vocational education.

The professional method courses, 300-320, are all under expert guidance and all involve participation in the actual work of instruction as far as this is practicable. In no case is the work of the sort designated by the German term *rein-theoretisch*. As an instance may be cited Dr. Edwards' courses in science teaching. Dr. Edwards' own preparation

and teaching experience guarantee not only the best type of scholarship but just the right practical insight and real contacts with subject matter and with growing boys and girls.

A complete statement in detail concerning courses of study will be found on pages 22-31 of the Announcement of the School of Education for 1919-20.

Work in Other Departments.—The department of education has consistently followed the policy of encouraging broad foundations. To that end it has specifically required certain prerequisites in other departments and has listed besides a number of courses, outside of subject method, in other departments. These courses seem adequately to meet certain special needs in education. The list is necessarily brief, since each department has its own specialized work to do. The encouragement of such courses is, however, highly desirable.

ENGLISH

Professors: C. M. GAYLEY, C. B. BRADLEY (Emeritus), W. M. HART, C. W. WELLS, B. P. KURTZ, T. F. SANFORD, H. L. BRUCE, H. E. CORY, A. G. BRODEUR, R. W. GORDON, S. J. HUME, L. BACON.

Instructors: W. W. LYMAN, G. MONTGOMERY, C. H. RAYMOND, A. BOYD, A. E. ANDERSON, M. L. KLEINECKE, R. H. CLARK.

Facilities.—The University Library is fairly well equipped for research in English, particularly in the drama, in the earlier periods, and in aesthetics. It is a subscriber to all the important periodicals, such as *Anglia*, *Englische Studien*, *The Modern Language Review*, *The Journal of English and Germanic Philology*, *Palaestra*, and is a member of such societies as the Early English Text Society, Chaucer Society, et cetera.

Publications.—Together with the other modern language departments of the University, the English department publishes a series of monographs in modern philology. In this series instructors and graduate students have published: *Studies in the marvellous* (B. P. Kurtz); the Old English Christian epic (G. A. Smithson); *The critics of Edmund Spenser*; Spenser, the school of the Fletchers, and Milton; Edmund Spenser, a critical study (H. E. Cory); *Voltaire on the English stage* (H. L. Bruce); a neglected aspect of the English romantic revolt (G. F. Richardson); *Layamon and Wace* (Frances L. Gillespy).

Research.—The various members of the department are actively engaged in research, in publication, and in the direction of graduate students in the following fields of study: the drama (Gayley, Hart, Hume); Victorian and Georgian literature (Gayley, Sanford); the eighteenth century (Sanford, Gordon); the romantic movement (Sanford); Elizabethan non-dramatic literature (Sanford); the essay (Bruce); the popular ballads (Gordon); philology (including early English literature) (Hart, Brodeur); comparative literature (Hart, Wells, Kurtz, Bruce); folklore (Hart, Brodeur); English satire (Montgomery).

Preliminary Requirements for Higher Degrees.—A reading knowledge of French or German is pre-requisite to all graduate courses. Other pre-requisites depend upon the special subject of investigation, and vary somewhat from year to year. In general, the completion of a course of systematic study, equivalent to that outlined for undergraduates majoring in English, is usually sufficient qualification for entrance to one or more of the seminars.

Candidates for higher degrees who desire to take English as a major or minor subject are urgently advised to include in their general preparation at least twelve units of university Latin or Greek, or of both, of higher grade than beginners' courses.

High School Teacher's Recommendation.—The candidate for the teacher's recommendation must present for credit course 110A-110B (General Introduction to English Philology, 3 hours per week throughout the year; 6 units.) In addition, of the five English final examinations he must pass the second, the fifth, and any one other. English final examination I (History of the Language) may be offered in substitution for course 110A-110B. English final V is especially important: a satisfactory grade in V is pre-requisite to recommendation by the department. Candidates who offer English as a major subject must pass the course in the teaching of English before undertaking work in practice teaching; and it is expected that such candidates do their practice teaching in English.

Inasmuch as the work in practice teaching requires considerable time and energy, it is desirable that students so arrange their programmes as to do injustice neither to it nor to their courses in English. Practice teaching must not be undertaken a second term.

THE DEPARTMENT REQUIRES ALL CANDIDATES TO FILL OUT PROGRAM BLANKS AND FILE THEM WITH PROFESSOR WELLS, THE OFFICIAL REPRESENTATIVE OF THE DEPARTMENT, AT THE TIME THAT THE APPLICATION FOR CANDIDACY FOR THE RECOMMENDATION IS FILED WITH THE DEPARTMENT OF EDUCATION.

Master's Degree.—Advancement to candidacy for the master's degree is recommended by the department only after one half-year of graduate work and after the student has passed with credit three of the English final examinations:—those in subjects II (History of the Literature) and V (oral and written Expression), and that in one of subjects I, III, IV. Since the same requirement is made of candidates for the teacher's recommendation, the department will admit to candidacy for the master's degree students who have obtained the recommendation. The department will not recommend that the degree be conferred until the candidate has passed *with credit* all of the five English final examinations listed below. Candidates who so desire may substitute for the examination in subject III (Special Author or Movement) an oral examination in the field of the thesis.

ALL CANDIDATES SHOULD FILL OUT A BLANK PROVIDED BY THE SECRETARY OF THE DEPARTMENT AT THE TIME THAT THE APPLICATION FOR ADMISSION TO CANDIDACY IS FILED WITH THE GRADUATE OFFICE.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy who present English as major subject may specialize either in literature or in philology. By literature is understood the history of the literature from the beginnings to the present time, with the emphasis on the modern period, i.e., after 1400. By philology is understood the history of the language and of the earlier periods of the literature. Candidates must pass an oral examination conducted by the department in either the literature or the philology, before attempting the university examination for the degree; and they must expect to be questioned in the final public examination on the history of both language and literature. Students will be recommended for advancement to candidacy with English as a major subject only after passing with credit all five of the English final examinations. Candidates who present English as a minor subject for the doctor's degree may specialize either in literature or in philology. For advancement to such candidacy, the department of English requires that students shall first have passed with credit the final examination in subject I or in subject II.

The department requires all candidates for the degree to present themselves for a preliminary examination conducted by the sub-committees.

The English Final Examinations.—The equipments required are:

1. A scholarly acquaintance with each of the three main periods of the English language and with the history of its development, to the present time.

2. Familiarity, obtained at first hand, with the chief masterpieces of English literature, with the history of its development, and with the principles and methods of historical study.

3. Satisfactory special knowledge of one of the greater authors or of one of the main literary movements.

4. Training in the principles of poetry and prose, and in the methods of criticism requisite to the advanced study of literature.

5. Skill in organizing and presenting thought, orally and in writing.

Candidates are warned against supposing that the purpose of these examinations can be attained by mere accumulation of courses in English. It will always be presupposed, however, that candidates presenting themselves for the teacher's certificate have an equivalent of 24 units of English to their credit, inclusive of at least one of the courses 111A-112B. But a proper course in Greek will be accepted as an equivalent for course 109A in English. Candidates must have a reading knowledge of French or German; and they are urgently advised to include in their general preparation at least twelve units of university Latin or Greek, of higher grade than beginners' courses.

GRADUATE COURSES

Graduates electing these courses must have a reading knowledge of French or German.

PHILOLOGY

- 211B. Seminar in Beowulf. BRODEUR.
- 212A. History of the English Language. BRODEUR.
Open only to candidates for higher degrees.
- *212B. Historical English Grammar. BRODEUR.
Open only to candidates for higher degrees.

THE COMPARATIVE STUDY OF LITERATURE

- 209F. Problems of Literary Criticism. KURTZ.
Seminar. Comparative study of deluge stories.
- *240A-240B. Seminar in Literary Criticism. GAYLEY.
From a study at first hand of the principal authorities. This course must be preceded by course 109 or 110.
- *242. Seminar in the Comparative study of Literature. HART.
Subject to be announced. Open only to candidates for higher degrees.
- 250A-250B. Theory of Fiction. WELLS.
Studies in the art of narrative, its principles and structure, with special application to the three orders of narration, impersonal, personal and fictional; investigation of special authors or selected groups of novels.
Pre-requisite: graduate standing and the consent of the instructor.

HISTORICAL AND CRITICAL STUDY OF THE LITERATURE

- *241A-241B. Seminar in Literary Investigation. GAYLEY.
Studies in the history of English comedy.
Open only to candidates for higher degrees.
- *243A-243B. Liberalism in Modern English Prose. CORY.
Seminar. Reading and reports. Intensive analysis of selected philosophical, economic, political, and educational essays by Hooker, Locke, Berkeley, Hume, Adam Smith, John Stuart Mill, Huxley, and William James.

* Not to be given during 1919-20.

244A-B-C-D. Seminar in the Romantic Movement.**SANFORD.**

A-B. The Romantic Movement in the 18th and 19th centuries in Great Britain, with frequent reference to the parallel movement on the Continent. (A) Elizabethan century to Scott. (B) 19th Century to Wm. Morris.

C-D. The naturalistic development from James Thomson to A. J. Munby. A critical and historical study of naturalistic writers from Thompson to Wordsworth (first half year), from Wordsworth to Munby (second half year).

A reading knowledge of French and German and graduate standing are prerequisites. As preparation for C-D, students are advised to take courses 115B, 119A, 119B.

246A-246B. Seminar in the English and Scottish Popular Ballads. GORDON.

Lectures, reports, theses. Special attention given to the history of the ballad collectors.

260A-260B. Special Study.

The instructors in English hold themselves ready to assist and advise competent students who may propose plans of special study which meet the approval of the Department.

299. Thesis for the Master's Degree.**SPECIAL COURSES****353. The Teaching of English in Secondary Schools.****BRECK.**

Primarily for graduates, but open to seniors who have the consent of the instructor. This course may not be counted towards the graduate credit required for the teacher's recommendation or for the master's degree.

355. The Teaching of Composition.**WELLS.**

Review of the four forms of discourse in turn, with practice in each. Studies in structure and in prose style; special emphasis on argument and on exposition as a means of teaching high-school subjects other than English.

Prerequisite: senior or graduate standing and the consent of the instructor.

(NOTE.—Attention is called to Public Speaking 150; a course planned to meet the needs of prospective teachers of English. See announcement of the Department of Public Speaking.)

UPPER DIVISION MAJOR COURSES

COMPOSITION

101D. Business English.	RAYMOND.
105. Critical Writing.	BRUCE.
106B. Frequent Writing.	WELLS, BRUCE, BOYD.
106E. Essay in Writing.	WELLS.
106F. Essays in Literary Backgrounds.	WELLS.
106H. Frequent Writing (advanced).	BRUCE.
106J. History and Methods of Journalism.	RAYMOND, BOYD, and outside lecturers.
106K. Special Class in Periodical Literature, Newspapers, Magazines and Reviews.	Committee on Journalism.
106M. English Verse Composition.	BACON.
108A. Criticism of Themes.	KURTZ.
PRINCIPLES OF LITERATURE: INTERPRETATION AND CRITICISM	
109E-F. Problems of Literary Criticism.	KURTZ and MONTGOMERY.
*110C-D. Reading and Reports.	CORY.

HISTORY OF THE LANGUAGE

110A-110B. General Introduction to English Philology.	BRODEUR.
111A. Old English.	BRODEUR.
111B. Middle English.	BRODEUR.
111C-111D. Chaucer and His Contemporaries.	BRODEUR.

DRAMA: HISTORY, CONSTRUCTION, CRITICISM

114A-114B. Introduction to the History of the Drama.	HUME.
114C-114D. Play Construction and the Modern Theatre.	HUME.
117A-117B. Shakespeare.	HART.

HISTORICAL AND CRITICAL STUDY OF THE LITERATURE

102A-102B. History of English Literature.	GORDON.
115A. Elizabethan Prose.	SANFORD.
115B. Spenser.	SANFORD.
*115C. Elizabethan Prose.	SANFORD.
*116A-116B. The Bible in English Literature.	GAYLEY.

* Not to be given during 1919-20.

118. Milton and His Times.	BACON.
*119A. Restoration Literature.	SANFORD.
*119B. Eighteenth Century Poetry.	GORDON.
119C. Eighteenth Century Prose.	GORDON.
119F. Dr. Johnson and His Age.	BACON.
120. English Satire from Bishop Hall to W. M. Thackeray.	MONTGOMERY.
121A-121B. Nineteenth Century Poetry.	SANFORD.
121E-121F. Late Victorian and Georgian Prose.	GAYLEY.
122A-122B. Browning.	SANFORD.
123B. Liberal Thought in English Literature.	BRUCE.
124B. Shelley, Keats and Tennyson.	KURTZ.
125A-125B. The Development of Narrative Art.	HART.
125C-125D. Criticism of the Novel.	WELLS.
127. The Anglo-Celtic Poets.	LYMAN.
*128A-128B. Twentieth Century Poetry.	SANFORD.

AMERICAN LITERATURE

*130. General History of American Literature.	_____
131. American Authors.	ANDERSON.
*132 The American Novel.	_____
199. Assignment for Honors.	

* Not to be given during 1919-20.

GEOGRAPHY

Professor; R. S. HOLWAY.

Instructor: B. M. VARNEY.

Facilities.—The opportunity for research work in the physical geography of California is almost unlimited. No equal area elsewhere in the United States offers a greater variety of topographic forms, and as yet relatively little study of these forms has been made. Within a short distance of the University the coast line topography is most striking and many special problems in connection with ocean terraces and sea-cliff erosion will yield valuable results. Peculiarities of drainage, fault zone topography, and remnants of former geographic cycles are almost at our doors. Within the limits of the state problems varying from the study of living glaciers to the erosion conditions of the most arid deserts are available for investigation by qualified students. The meteorology and climatology of the state also offer abundant work for original observations, and the extensive data collected by the United States Weather Bureau is available for research in this field.

In addition to field work there is opportunity for extensive research in the University Library in correlating and interpreting geographical data now scattered through various scientific reports relating to investigations primarily in other subjects. In the problem of geographic influence in California history the Bancroft Library promises valuable results to the student who knows the physiography of the southwestern United States.

At present there are no research scholarships specifically for studies in geography. The teaching fellowship has sometimes enabled the holder to carry on field work in vacations. Some expenses for field work in the past have been defrayed by the Research Board and an appropriation has been allowed by them for 1919-20.

Research and Publications.—The problems of research undertaken thus far have been in the main related to two general subjects: the climatology of California and the stages of the normal geographical cycle of erosion represented by the topographic features of the Coast Ranges of central California. In general the scope of the work will be indicated by the University of California Publications in Geography, of which eleven numbers have appeared. With the interruptions of the last two years no research problem has been completed. The study of the variability of rainfall in California is now being carried on. The preliminary survey

has been made for an investigation of the character and extent of recent earth movements in the central Coast Ranges south of Monterey Bay as measured by the comparative elevations of river and ocean terraces.

Preliminary Requirements.—The preparation for graduate study is normally 15 units of major work in geography, of which part must be field work. In addition to this, a satisfactory preparation in geology is asked. If the student's interest and future work lie on the historical or commercial side of geography rather than on the physical, part of the requirements may be replaced by history or by economics.

Master's Degree.—The graduate work at present offered consists of a seminar for the study of recent geographical investigations, and of directed study of individual problems. In addition to the prescribed conditions for the master's degree, it is expected that candidates whose work is on the physical side of geography should satisfactorily complete some independent field investigation as the basis for the required thesis.

GRADUATE COURSES

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| 219. Recent Geographical Problems. | HOLWAY. |
| 220. The Teaching of Physical Geography. | HOLWAY. |

UPPER DIVISION MAJOR COURSES

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|---|---------|
| 102. Field Physiography. | HOLWAY. |
| 113. General Climatology. | VARNEY. |
| 115. Physiography of California. | HOLWAY. |
| 116A. Geography of North America. | VARNEY. |
| 116B. Geography of South America. | VARNEY. |
| 116C. Geography of Europe. | VARNEY. |
| 118. Advanced Physiography. | HOLWAY. |
| 121. Current Developments in Meteorology and Climatology. | VARNEY. |
| 127. Geographic Influences in Human Affairs. | HOLWAY. |

GEOLOGY AND MINERALOGY

Professors: A. C. LAWSON, J. C. MERRIAM, G. D. LOUDERBACK, A. S. EAKLE.
Instructor: N. L. TALIAFERRO.

Preliminary Requirements.—Graduate status in the department may be attained by the completion of an undergraduate major, or its equivalent, in geology, or mineralogy, or in certain combinations of these. The work of a graduate student is largely determined by his individual proclivities and is essentially investigative in character. Having chosen a field of work, he is expected to pursue it vigorously and at the same time familiarize himself with the literature of the field. He must also follow the current literature of the day in the general subject. Normally, thesis work in the department is based upon field studies, and prospective graduate students are advised to consult with some member of the department as to summer field work, so that the proper foundation may be laid for the studies he is to pursue during the University session. The year at the University will in this way be made much more profitable to him, and he may save a term, or even a year, in the progress of his training in research, and, if he be a candidate, in the attainment of his degree.

Students looking forward to advanced work in the department are also advised to secure in their undergraduate years a thorough grounding in the fundamental facts, ideas, and methods of physics and chemistry. Geology 103AB, 102A–102B are fundamental to all advanced work in geology, and in addition: for structural geology, course Geology 116; for petrology, courses Geology 104A, 104B; for economic geology, courses Geology 102C, 102D, 104A, 104B; for stratigraphic geology, courses Geology 1B and 107; for seismology, courses Geology 114 and 115; for mineralogy and crystallography, courses Mineralogy 103 and 107. A reading knowledge of German and French is most desirable, if not absolutely necessary, for students proposing to enter upon a career in this branch of science.

The test of success in the advanced work of the department is, in general, the production of one or more contributions to science worthy of publication. The activity in research in the combined departments of geology and palaeontology is manifested, in part, by the publication of the Bulletin of the Department of Geology, of which 210 numbers have been issued, comprising 5579 octavo pages.

Facilities.—For purposes of training in field work there is probably nowhere a more inviting geological field than that which lies immedi-

ately at the gates of the University of California. In nearly all departments of geology the problems offered to the student are varied and interesting. In the treeless region between Berkeley and Mt. Diablo and on the San Francisco and Marin peninsulas there are magnificent illustrations of mountain structure, and the opportunities for acquiring skill in stratigraphy and in the interpretation of structural phenomena could scarcely be surpassed. The strata of the region are replete with Cretaceous and Tertiary fossils. The igneous rocks range in character from the most acid to the most basic, and include plutonic intrusives, dykes, and volcanic flows. In themselves and in the metamorphic contact zones which they have developed in the adjoining country rock, they afford to the student of petrography abundant material for study. In dynamic geology the operation of wave, wind, and stream in the evolution of geomorphic form is finely illustrated, as are, also, the phenomena due to vertical oscillations of the coast. The facilities for local field work are ample. The region adjacent to the Bay of San Francisco, from Mount Hamilton northward, has been mapped topographically by the United States Geological Survey, and excellent contour maps are available, to serve as the basis of instruction in geological cartography.

In the wider field of the entire state many broad and philosophic problems in geological science grow upon the student as he becomes familiar with the structure and physiography of the country. Movements of vast extent have occurred on the western margin of the continent in late geological time, and the conditions for their study are here most favorable. Such questions as are involved in the doctrine of isostasy and in the theories of orogeny and epeirogeny are constantly suggested to the student by his environment. The science of geomorphology could scarcely find a more promising field for the concrete illustration of its principles; and the same statement is true of seismology. In the Sierra Nevada, studies in glaciology may be pursued to great advantage. In petrology and mineralogy a large and inviting field awaits the investigator. The economic geology of this state has as yet been but partially studied.

In palaeontology and historical geology California offers unlimited material to the student desirous of engaging in research. Almost the entire geological column from the Cambrian to the Quaternary is represented by fossiliferous horizons; and, although valuable contributions to the palaeontology of the state have been made by Conrad, Gabb, Stanton, Merriam, Smith, and others, many of the more important problems relating to the geological positions and faunal relations of the California formations are still unsolved.

Equipment.—The laboratories of the department are equipped with standard instruments and apparatus for the prosecution of geological,

petrographical, and mineralogical research, such as petrographic and reflecting microscopes, goniometers, machinery for the preparation of thin sections and polished surfaces, chemical apparatus for rock and mineral analyses, etc. The department also has a number of light plane tables for use in geological mapping in the field. The University Library is supplied with all the important current periodicals and there is a departmental library, the equipment of which includes a large number of topographic and geologic maps for map study, and drafting tables for map work. The department also maintains a seismographic station with two Bosch-Omori horizontal pendulums, one Wiechert vertical component seismograph, one Marvin strong motion seismograph, and one small Omori seismograph for horizontal components.

The museum contains extensive systematic rock, mineral, and ore collections, including several thousand thin sections, a considerable number of polished surface preparations, many collections illustrating special localities and particular scientific publications. The collections contain not only material valuable for comparative purposes, but much that is worthy of detailed petrographical, crystallographic, and chemical investigation.

GEOLOGY

Facilities.—Classes in advanced geology are usually small, and this fact permits individual instruction of a rather informal character. The student making geology his major study is in direct personal contact with the professors of the department and he has the advantage of their daily advice and guidance in any programme of work that may be adopted. A departmental library with suitable drafting tables for map work and other conveniences is his workshop.

Seminars.—A seminar is maintained by Professor Lawson throughout the year for the weekly discussion of the problems presented in the geological literature of the day. During the second semester Professor Louderback conducts a seminar in the geology of California, taking up in alternate years the pre-Tertiary and the post-Cretaceous formations and history. The aim is to familiarize the student with the more important original literature dealing with the geological history of the Californian region. It develops a background against which particular problems may be seen in relation to the whole historical development. It aims further to serve a larger purpose, in that it lays special emphasis on methods of geological reasoning, the types of evidence presented by the various authors for their conclusions, and the critique of their validity.

Higher Degrees.—The thesis work of a candidate for a degree may be a problem in stratigraphy, structural geology, economic geology, or geomorphology, or it may be the study of a selected area, the elucidation of which usually involves a variety of problems in any or all of these phases of geology. The field work forming the basis of such studies involves no distant travel or heavy expense. In special cases the thesis may be a discussion of some broad philosophic problem and be based on a wide acquaintance with the literature.

GRADUATE COURSES

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| 209. Geology of California. | LOUDERBACK. |
| (A) From the earliest times to the opening of the Tertiary. | |
| (B) From the post-Jurassic revolution to the present time. | |
| 210. Inorganic Geology. | LAWSON. |
| 214. Advanced Laboratory and Field Work. | LOUDERBACK. |
| 299. Thesis for the Master's Degree. | |

UPPER DIVISION MAJOR COURSES

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| 102A-102B. Field Geology. | LOUDERBACK. |
| 102C. Economic Geology. Metalliferous Deposits. | LAWSON. |
| 102D. Economic Geology. Non-metalliferous Deposits. | LAWSON. |
| 103AB. Introduction to Petrology. | TALIAFERRO. |
| 104A-104B. Petrographical Laboratory. | TALIAFERRO. |
| 106. Practical Work in Palaeontological Geology. | CLARK. |
| 107. Physical Geology of North America. | LAWSON. |
| 112. Undergraduate Thesis Course. | |
| 114. Earthquakes: an Introduction to Seismology. | TALIAFERRO. |
| 115. Instrumental Seismology. | INMAN. |
| 116. Tectonic Geology. | TALIAFERRO. |
| 180. Field Geology (in or out of the regular session). | The Staff. |

Petrology

Facilities.—The laboratories are equipped for optical, chemical, mechanical, and other usual modes of investigation. The University Library is well supplied with the important current periodicals. The systematic collections of rocks and thin sections contain representatives of a wide range of types, together with many special suites illustrating monographs, classic localities, et cetera. The laboratory facilities are avail-

able at all times during the academic year, and the student will be assigned a working place with accommodations for his collected material, for instruments, books, et cetera, which he may make his headquarters and where he may do continuous and undisturbed work convenient to the departmental reference collections and library.

Research.—The facilities of the department for research work are open to any student prepared to carry on investigations in any of its branches. A weekly seminar is conducted by Professor Louderback in petrographic geology (Geology 214r). The general topic for 1918-19 was the petrology and geology of igneous rocks, for 1919-20, sedimentation. Students pursuing advanced systematic study and research work will be enrolled under some branch of Geology 214. As a rule it is desirable that the thesis or research problem be based on a field study, and the student should arrange to spend considerable time in the summer vacation on his field work.

Higher Degrees.—The work acceptable as a minor for the degree of Doctor of Philosophy or major for the master's degree will differ according to the interests of the students. It is recognized that the purpose may be (1) to get a general elementary knowledge of the nature, characteristics, and the criteria for distinguishing the main rock types. It is suggested that a minimum of 4 units per term for a year (including seminar and research work) be devoted to this work beyond the completion of Geology 104b, in addition to the thesis, where such is required. Or the purpose may be (2) to learn more thoroughly certain particular types of rocks or rock products (such as replacements, veins, weathering types, soils, et cetera), and (or) the special petrographic methods applicable to their study that may be useful adjuncts in the student's major line. Such major interest might lie in one of the various branches of geology, or mineralogy, in metalliferous deposits, certain problems in engineering, physiography, soil studies, et cetera.

MINERALOGY

Facilities.—The department offers to the student of graduate standing excellent facilities for study in any branch of mineralogical science. The library is well supplied with foreign and domestic periodicals and books bearing on every phase of the subject. The mineral collections contain much material worthy of detailed study, and the laboratories for crystallographic, optical, physical, and chemical investigation are equipped with all necessary apparatus for such work.

Research.—Research may be pursued along the lines of pure crystallography and of pure mineralogy, or, in conjunction with geology, particular fields of mineral deposits may be studied in detail. The state offers exceptional advantages to the investigator because few of its known mineral deposits have been described, and numerous contact zones, pegmatitic dykes, mineral veins, and lake deposits afford attractive problems.

Preliminary Requirements.—Enrollment as a graduate student in mineralogy presupposes a knowledge of minerals sufficiently extensive to enable the student to carry on independent research in the subject. In general, it would require a full undergraduate major in mineralogy or its equivalent. Students enrolled in courses 207 and 208 may undertake any line of crystallographic or mineralogical investigation and will have the advice and assistance of the members of the department.

GRADUATE COURSES

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| 207. Advanced Crystallography. | EAKLE. |
| 208. Advanced Mineralogy. | EAKLE. |
| 299. Thesis for the Master's Degree. | |

UPPER DIVISION MAJOR COURSES

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| 102c. Physical Mineralogy. | EAKLE. |
| 103. Descriptive Mineralogy. | EAKLE. |
| 104. Gems and Precious Stones. | EAKLE. |
| *105. Paragenesis of Minerals. | EAKLE. |
| 106. Undergraduate Thesis Course. | EAKLE. |
| 107. Mineralogical Laboratory. | EAKLE. |

* Not to be given, 1920-21.

GERMAN

Professors: H. K. SCHILLING, C. PASCHALL, A. PUTZKER, Emeritus, J. H. SENER, Emeritus.

Instructors: C. H. BELL, F. SCHNEIDER, L. M. PRICE, A. P. TABOR.

Facilities.—Ample library facilities are at hand for graduate work. In addition to the large collection in German literature and linguistics and the complete files of the standard periodicals found in the University Library, graduate students have at their disposal the Weinhold Library, with its eight thousand volumes, containing many rare old books and first editions.

Research.—In the pro-seminars original investigations are carried on in connection with the study of particular periods or authors in German literature (see courses 210, 242); the Germanic Seminar (250) is devoted to research in subjects chosen from any part of the domain of German philology and literature, according to each student's previous preparation and individual bent.

At the present time researches are being carried on along three lines: the origin of the German form of the future tense, the survival of traces of matriarchy in the mediaeval German epics, and the attitude of Goethe towards the higher politics of his day.

Publications.—The department of German publishes, jointly with the other modern language departments, a series of monographs entitled University of California Publications in Modern Philology. In this series studies in the following subjects have appeared: *Der Junge Goethe und das Publikum*; *Wilhelm Busch als Dichter, Künstler, Psychologe und Philosoph*; *Histrionics in the Dramas of Franz Grillparzer*; *Rousseau's Einfluss auf Klinger*; *Das gerettete Venedig, eine vergleichende Studie*.

Preliminary Requirements for Higher Degrees.—The prerequisites for admission to candidacy for a higher degree are: the ability to read difficult literary German and to write and speak the language correctly and with a fair degree of readiness; a general knowledge of the history of German literature; an acquaintance at first hand with the principal classics. The following groups of courses, each group representing a year's work, are suggested as furnishing the required preparation: 105, 106A-106B, with possibly 107 or 110; 106C-106D, 118, with possibly 111, or 119.

For the special study of German literature a reading knowledge of Latin and French and a general acquaintance with German history and

the history of philosophy are practically indispensable. For philological work some knowledge of Greek is highly desirable.

Master's Degree.—Candidates for the master's degree must have a general knowledge of the history of German literature, including a more intimate acquaintance with some particular period, together with a knowledge of Middle High German.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy in German must present both philology and literature, one as their major, the other as a minor. Candidates whose major is philology will be examined in Gothic, Old Saxon, Old High German, Middle High German, and the history of the German language generally. Those presenting literature as a major will be examined in the history of German literature, a general knowledge of the whole field being required, together with a more detailed knowledge of one period, author, or literary type. Candidates presenting philology as a minor will be examined in Old High German, Middle High German, and the outlines of the history of the German language. The requirement for the minor in literature is a general knowledge of the history of German literature. As a second minor for those specializing in philology, either Old French, Old English, or Old Norse is suggested, for those specializing in literature, any other European literature, or else history, or philosophy. But the second minor is entirely optional.

GRADUATE COURSES

Prerequisite: for the literary courses, course 118A–118B; for those in philology, ordinarily courses 106C–106D, and 119A.

206J–206K. Composition. Third Course.	SCHNEIDER.
210. French Influences upon German Literature in the Eighteenth Century. Pro-seminar.	PRICE.
*222A–222B. The Faust Legend and Goethe's Faust.	SCHILLING.
*223A–223B. The Poems of Goethe.	SCHILLING.
225A–225B. German Literature in the Nineteenth Century: Prose Fiction, Epic and Lyric Poetry.	TABOR.
226A–226B. German Literature in the Nineteenth Century: the Drama.	TABOR.
230A–230B. The German Drama of the Present Day.	SCHILLING.
235. Old Saxon. Outlines of Germanic Metrics.	SCHILLING.
*237. Old High German.	SCHILLING.

* Not to be given 1920–21 unless otherwise stated in the Annual Announcement of Courses.

240. Historical Grammar of the German Language: Middle High German and Modern German. PASCHALL.
 *Germanic Antiquities. [See Germanic Philology 205.] SCHILLING.
 242A. The Lyrics and Prose of Heine and Mörike. Pro-seminar. SCHNEIDER.
 *247. German Poetry During the Decadence of Chivalry. SCHILLING.
 Introduction to Germanic Philology. [See Germanic Philology 201.] SCHILLING.
 250A-250B. Germanic Seminar. SCHILLING.
 299. Thesis for the Master's Degree.

UPPER DIVISION MAJOR COURSES

The courses in this group (except courses 121A and 121B) are conducted in German.

- 103A-103B. Advanced Scientific (Medical) German. RING.
 105A-105B. Classics of the Eighteenth Century. PASCHALL.
 106A-106B. Grammar, Composition, and Conversation. First Course. PRICE.
 106C-106D. Grammar, Composition, and Conversation. Second course. SCHNEIDER.
 *106E-106F. Exercises in Conversation and Writing. SCHNEIDER.
 107A-107B. Rapid Prose Reading. TABOR.
 110A-110B. The German Ballad. SCHILLING.
 111A-111B. Novelists of the Nineteenth Century. SCHNEIDER.
 *113A-113B. The German Folk-song. SCHILLING.
 118A-118B. General History of German Literature. SCHILLING.
 119A. Middle High German. PASCHALL.
 121D. German Phonology and Orthography. PASCHALL.
 150A-150B. Special Study. The Staff.

GERMANIC PHILOLOGY

For the courses in English and German philology see the department announcements. The courses in Germanic philology are open to competent undergraduates, at the discretion of the instructor.

GRADUATE COURSES

201. Introduction to Germanic Philology. SCHILLING.
 202. Gothic. PASCHALL.
 *203A-203B. Old Norse. PASCHALL.

* Not to be given in 1920-21 unless otherwise stated in the Announcement of Courses.

GREEK

Professors: J. T. ALLEN, I. M. LINFORTH, O. M. WASHBURN, G. M. CALHOUN.

Instructor: R. M. JONES.

Facilities.—The department of Greek offers ample opportunity to students to pursue advanced work, not only in the history of the Greek language and in the several branches of ancient Greek literature, but also in the fields of Greek religion, topography, epigraphy, archaeology, and papyrology. The subjects which have received special attention from members of the staff and for the study of which the facilities have been most completely developed are: Aeschylus and the history of the drama, with special reference to dramatic representation; Sophocles; Greek religion; Greek epigraphy and archaeology; the Attic Orators; Greek law and government; Greek philosophy.

Although as a matter of expediency only a small number of graduate courses are announced each year, the instructors in the department hold themselves in readiness to advise and direct properly qualified students in the investigation of any worthy problem bearing upon the Greek language or literature, or ancient Greek life.

The University Library, enriched by very large additions during the fifteen years past, contains nearly twenty thousand volumes pertaining to classical antiquity. These include, in addition to a practically complete collection of Greek and Roman authors from Homeric to modern times, complete sets of all the more important journals of classical philology and archaeology, besides more than a thousand unbound dissertations and other pamphlets.

The University Museum possesses many electrotypes replicas of "Mycenaean" gold and silver objects, a small but well selected collection of casts of Greek and Graeco-Roman sculpture, a large number of ancient vases and facsimiles of Fayum portraits. In addition, there is a cabinet of several thousand ancient Greek and Roman medals and coins, and a very large number of lantern slides illustrating the topography, monuments, art, and life of ancient Greece and Rome.

Facilities for the publication of the results of researches conducted by the instructors and students in this department are offered in the University of California Publications in Classical Philology.

Research.—Professor Allen has recently completed a book on "The Greek Theatre of the Fifth Century before Christ," which presents in part

the results of investigations extending over a number of years. Professor Linforth has completed within the past year his book, "Solon the Athenian," which contains a biography, a text and translation of the poems, textual and explanatory notes, and a number of excursuses on various historical problems. Professor Calhoun has just finished the publication of a series of three studies on special pleas in Athenian courts.

Preliminary Requirements.—The completion of an undergraduate major in Greek, or the equivalent is the prerequisite to graduate study. Students who intend to become candidates for higher degrees may profitably pursue during their junior and senior years the program of study outlined in the Announcement of Courses, but they will find it to their advantage to consult the department regarding the courses best suited to their needs.

Teachers' Recommendations.—The specific requirement in Greek is twenty-four units in courses which require a knowledge of the language. Courses 3A-3B must be included in this number, but courses 1A-1B and 2A-2B and matriculation subject 5A may not be so included.

Master of Arts.—Candidates for the degree of Master of Arts in Greek are expected to fulfill the general requirements established for the Graduate Division. Their programs should be submitted to the department for approval at the time of registration.

Doctor of Philosophy.—The Department of Greek does not consider it wise to establish a fixed curriculum of study for all candidates for the doctorate whose principal subject is Greek. It is expected, however, that before coming up for the degree a candidate will have acquired considerable familiarity with the principal Greek authors and with the general course of Greek history. In addition to this, he should have an intimate acquaintance with one or more authors or with some important department of classical study. The required thesis should be written in the field of his special interest and should grow naturally out of his special study.

As a preliminary to the work for the doctorate every applicant for candidacy must pass satisfactorily two examinations, one in his ability to write Greek prose, the other in his ability to translate into English prose reasonably simple passages chosen from the Greek poets and prose writers commonly read in colleges. At least two years of study will be required after these examinations have been passed, and until they have been passed the applicant should give most of his effort to preparation for them. Throughout his period of graduate study the student should devote himself to widening and strengthening, both in courses and in private reading, his knowledge of the Greek language and literature and of Greek history. But at least two years before coming up

for the degree he should begin to make himself a specialist in some field of classical study chosen by himself, and he should as soon as possible determine upon some subject within this field which will be appropriate for a thesis, to the preparation of which he should plan to give somewhat more than a year's time.

GRADUATE COURSES

212A-212B. Seminar in the Attic Orators.	CALHOUN.
*251A-251B. Seminar in Greek Religion.	LINFORTH.
*255A-255B. Seminar in Greek Dramatic Representation.	ALLEN.
257A-257B. Greek Inscriptions.	WASHBURN.
*260A-260B. Seminar in Greek Philosophy.	JONES.

In general not more than one or two of these courses will be offered in the same year.

UPPER DIVISION MAJOR COURSES

103. Historical Prose.	_____
104. Introduction to Greek Drama.	_____
107. Sophocles.	LINFORTH.
114. Plato.	JONES.
151A-151B. Greek Religion.	LINFORTH.
152. Greek Government.	CALHOUN.
153. Greek Law.	CALHOUN.
154. Introduction to the Study of Greek Literature.	ALLEN.
155. Studies in Greek Drama.	ALLEN.
*156. Greek Painting.	WASHBURN.
*158. Greek Sculpture.	WASHBURN.
159. Greek Architecture.	WASHBURN.
161. The Philosophy of Plato.	JONES.
162. Aristotle.	JONES.
*163. Stoics, Epicureans and Sceptics.	JONES.

* Not to be given, 1920-21.

HISTORY

Professors: H. E. BOLTON, E. I. McCORMAC, L. J. PAETOW, *R. RAMÍREZ, W. A. MORRIS, †C. E. CHAPMAN, H. I. PRIESTLEY, K. C. LEEBRICK, J. J. VANNOSTRAND, J. V. FULLER.

FACILITIES

The department of history offers courses and research facilities as detailed below, leading to the high school teachers' recommendation, the master's degree, and the doctor's degree in Ancient, Medieval, Modern European, English, Hispanic, and American History.

Ancient History

In the field of Ancient History it has been the aim and ideal of the department to keep thoroughly abreast of the literature dealing with the results of recent discoveries and research, so that the proper facilities and an adequate working library might be provided for an intelligent study and a proper understanding of the field as an organic whole, in connection with the general course 111. Special funds have made possible the building up of an exceptionally well equipped library in classical history and literature. In addition to the secondary material, general and special, the University Library contains practically all of the periodical sets covering the entire field of classical studies and provides extensively for the current periodical literature in all of the various special fields.

In the allied subjects of philology, archaeology, numismatics, epigraphy, palaeography, and papyrology ample material for the training of advanced students and for intensive study and research are provided by the University Library and by the University collections and museums. In addition to the standard works and special sets of such authorities as Eckhel, Babelon, Svoronos, Garrucci, Poole, Head, Hill, Imhoof-Blumer, and Macdonald (Greek coins in the Hunterian collection), the University possesses an excellent collection of some twelve hundred coins covering the Greek, Roman, and Byzantine periods. The University Library is particularly well equipped in archaeological literature, and contains such sets as Furtwaengler-Reichhold-Hauser, *Griechische Vasenmalerei*; Furtwaengler, *Sammlung Somsée*, *Sammlung Sabouroff*,

* Chilean Exchange Professor in History, January-December, 1920.

† Absent on leave, January to December, 1920.

and *Antike Gemmen*; Gerhard, *Auserlesene Griechische Vasenbilder*; the Arndt-Amelung and Herrman-Bruckmann sets, the *Monumenti Antichi*, the complete set of *Antike Denkmäler*; Fondation Eugène Piot, *Monuments et Mémoires*; Raoul-Rochette, *Monuments inédits d'Antiquité figurée*; and the complete series of serial publications of the German, Austrian, Italian, French, British, and American schools or institutes, particularly the complete set of the *Annali*, *Bullettini*, and *Monumenti* of the Archaeological Institute. For practical training and for illustrative purposes mention must also be made of the Phoebe A. Hearst Collection in the Affiliated Colleges and the University Museum at Berkeley, and the collections in the Golden Gate Park Museum, San Francisco. Valuable material for the study of Greek cultural and economic history is to be found in the series of Greek vases representing most of the different types and periods. A special effort has been made to make the primary material in all the different fields for the period from Alexander to Justinian as complete as possible and graduate students will find the collections of inscriptions (Greek, Latin, Christian) and of papyri practically complete to date.

Medieval History

In material for graduate study in Medieval History the University Library is comparatively well supplied, as may be seen from the following list of large sets placed in the Library of European Sources:

Monumenta Germaniae historica; *Collection de documents inédits sur l'histoire de France*; *Société de l'histoire de France*; *Recueil des historiens des Gaules et de la France*; *Chartes et diplômes relatifs à l'histoire de France*; *Fontes rerum Austriacarum*; *Rolls Series*; *Mansi, Amplissima collectio conciliorum*; *Migne, Patrologia latina*, and *Patrologia graeca*; *Acta sanctorum*; *Recueil des historiens des croisades*; *Rerum Italicarum scriptores (1723-51)*; *Gallia Christiana nova*; *Collection de textes pour servir à l'étude et à l'enseignement de l'histoire*; *Scriptores rerum germanicarum in usum scholarum*; *Corpus scriptorum historiae Byzantinae*; *Corpus scriptorum ecclesiasticorum latinorum*; *Buchon, Choix de chroniques et mémoires sur l'histoire de France*; *Petitot et Monmerqué, Collection complète des mémoires relatifs à l'histoire de France*. An attempt is being made to gather extensive materials on the mendicants and on the intellectual history of the twelfth and thirteenth centuries with special reference to Paris. The department aims to acquire for the University, as rapidly as possible, all the available books mentioned in L. J. Paetow, *Guide to the study of medieval history* (University of California Press, 1917).

English History

The library contains the principal series of source collections for the study of early English History and Institutions. Among these are the standard sets for the Anglo-Saxon period, the Rolls Series and the publications of the Record Commission. While the material for the later period is far less abundant, the volumes of the Parliamentary Debates and the Journals of the Lords and Commons are complete. For the seventeenth and eighteenth centuries such collections as Rushworth, Thurloe, the Somers Tracts, and the Harleian Miscellany are on hand, and there is some memoir material for the later centuries of English History. The resources of the library also include Calendars of State Papers, the publications of the Historical Manuscript Commission and those of some of the leading societies, such as the Camden, Salt, Surtees, Somerset Record and Oxford Historical Societies.

Modern European History

With the qualification of a need for European residence and study—which it is hoped may be met in time by the establishment of traveling fellowships in European History upon the model of the traveling fellowship in Pacific Coast History, recently founded by the Order of the Native Sons of the Golden West—opportunities can be offered in the University of California for work in Modern European History which would lead up to taking the best advantage of a year of European study and residence. This work may be divided into general training in historical bibliography and in studies of special periods and subjects in Modern European History.

The University Library has files of all the principal historical reviews in English, French, German, and Spanish, which are kept in the Library of European Sources in the University Library; and in special fields—such as the period of the French Revolution—the special historical reviews, such as the *Révolution Française*, the *Annales Révolutionnaires*, the *Feuilles d'Histoire*, the *Revue de la Révolution Française*, the *Revue des Curiosités Révolutionnaires*, the *Revue Napoléonienne*, and the *Revue des Etudes Napoléoniennes*, are also taken. A basis is thus offered for training in the current historical bibliography contained in both the general and the special historical reviews. Familiarity can be given with the earlier historical literature from the study of the principal bibliographies, such as those of Langlois, Dahlmann-Waitz, Monod, Caron, Kircheisen, et cetera. Instruction, further, can be given by members of the department familiar with them in the methods used in European libraries and archives, especially in England, France, and Spain, for the classification of their historical material, and in the way in which these libraries and

archives can be used most profitably by American students of Modern European History.

Since the University Library contains most of the great collections of printed sources, such as the English *Calendar of State Papers*, the French *Documents Inédits*, the Spanish *Documentos Inéditos*, and the Russian *Sbornik*, as well as the publications of many academies, sets of periodicals that publish documents, and the chief collections of memoirs and family papers, a student in Modern European History in the University of California has access to enough primary material for a master's thesis and enough to lay the foundation for a doctor's thesis. In this field the general primary material is supplemented by the possession of files of certain of the newspapers of the French Revolution, such as the *Moniteur* from 1789 to 1816 (in the original and not in the reprint), the *Actes des Apôtres*, Barère's *Point du Jour*, and by such collections as the *Archives Parlementaires*, as well as by many small special collections of Barère's *Rapports* and similar material.

In Modern European History, the secondary literature is so vast that not much of it can be found in the library of the University. Something has been done for the History of the Eighteenth Century in general, and more particularly for the History of Spain in the Eighteenth Century, and for the History of the French Revolution and the Napoleonic Era; the general secondary works of the last few years have been procured, and a few special topics have been adequately covered. A general idea of the extent of the equipment for Modern European History in the University Library can be obtained from the general bibliography prefixed to *A Syllabus of a Course of Eighty-seven Lectures on Modern European History*, by H. Morse Stephens, pp. xv, xviii, and from the special bibliographies affixed to each lecture in the same volume, for practically all of the collections of books therein cited are contained in the University Library.

Library of European Sources.—In addition to the Bancroft Library, the department has under its supervision the special Library of European Sources, of about 5000 volumes, in a room providing facilities for about 75 readers.

American History

In the field of United States History ample opportunity is afforded for research necessary for the doctor's degree. The University Library contains nearly all of the important collections of printed sources on colonial and national history. Material is available for the study of colonial institutions and constitutional development; for research in national politics and administration; and for investigation in the various phases of constitutional history. Supplemented by the Bancroft Library

the University Library contains adequate material for research in the history of the Trans-Mississippi West, especially for a study of questions relating to the occupation of the public domain, and to state and local history.

The Bancroft Library.—The attention of students is called to the exceptional opportunities for historical research in Western and Spanish-American History offered by the Hubert Howe Bancroft Library of manuscripts and books relating to the countries bordering on the Pacific Ocean from Alaska to Panama. There can be no reasonable doubt that this is the most remarkable collection of unpublished documentary material at the disposal of students in any American university. The individual manuscript documents which are as yet unprinted may be estimated at two hundred thousand, and these are continually receiving additions in the form of transcripts from the archives of Mexico and Spain. The manuscripts relate more especially to the history of California, but they also cover the history of Spanish activities in Mexico, Central America, Louisiana, the Southwest, and the Pacific Coast. In addition to those in the Bancroft Library, a large private collection of transcripts from Mexican archives relating to the early history of Texas and New Mexico has become available to graduate students of the University. The collection of printed materials on Western Spanish and American history is even richer than that in manuscript.

Seminar and Other Rooms.—There are also a large seminar room and other rooms devoted to administration and historical research. Studies for the use of the members of the department are located in the Library Building and in Benjamin Ide Wheeler Hall. The office of the department is in Wheeler Hall (Room 30).

FELLOWSHIPS

The Native Sons of the Golden West support two Native Sons Fellowships in Pacific Coast History, each bearing an income of \$1500 per year. As a rule these fellowships are awarded to men who desire to study abroad, as in Spain or Mexico, but during the period of the Great War they have been converted into four resident fellowships, each bearing an income of \$750. The regular University Fellowships and the Le Conte Fellowship are open on a competitive basis to students in history. To encourage the study of European History, and in honor of the late Henry Morse Stephens, the Henry Morse Stephens Travelling Fellowship in European History, bearing an income of \$1,500 a year, has recently been created and, it is hoped, will become available for the year 1920-1921. Opportunities for properly qualified students who wish to devote a part of their time to

assisting in the departments are afforded by the assistantships in history which pay \$750 a year, the teaching fellowships, which pay \$600 and the readerships, which pay from \$225 to \$300 a year. At present the department has five assistants, five teaching fellows, six fellows, and eight readers.

RESEARCH AND PUBLICATIONS

Research.—The nature of research accomplished within recent years is indicated below under the head of "Publications." Research now being done by graduate students is indicated by the following titles of doctoral theses in preparation in the department: the religious policies of the Roman emperors, 260–305 A.D.; the imperial policy of Oliver Cromwell; a critical study of the plans which have been advanced for the federation of the British Empire; Buffon, the naturalist contributor to the encyclopedia; the rule of Strafford in Ireland; geographical explorations of the fifteenth and sixteenth centuries; military defense in the Spanish colonial system; diplomatic relations of the United States and Mexico, 1848–1880; diplomatic relations of the Hispanic-American Republics and the United States since 1898; Antonio de Mendoza, first viceroy of New Spain; the founding of New Mexico, 1580–1609; the history of early California journalism, 1846–1865; the opening of the southern trails to California, 1803–1848; the rise and development of political parties in California; California in the civil war; the Federal Indian policy in Oregon, 1846–1870; the expansionist movement in Texas, 1836–1850; the Spanish fur-trade in West Florida.

Publications.—Some of the results of investigations completed in connection with the work of the department appear in the University of California Publications in History and in the Publications of the Academy of Pacific Coast History.

University of California Publications in History.—Colonial Opposition to Imperial Authority during the French and Indian War (Eugene Irving McCormac); The Viceroy of New Spain (Donald Eugene Smith); The Beginnings of Spanish Settlement in the El Paso District (Anne E. Hughes); History of the Western Boundary of the Louisiana Purchase, 1819–1841 (Thomas Maitland Marshall); The Battle of the Seven Arts, a French poem by Henri d'Andeli, ed. and tr. (Louis John Paetow); Texas in the Middle Eighteenth Century (Herbert Eugene Bolton); The Influence of Anthropology on the Course of Political Science (John Linton Myres); The Reorganization of Spain by Augustus (John James Van Nostrand); Prolegomena to History (Frederick John Teggart); California,—the Name (Ruth Putnam); José de Gálvez, Visitor-General of New Spain, 1765–1771 (Herbert Ingram Priestley); The Formation of the State of Oklahoma, 1803–1906 (Roy Gittinger); The Northwest Com-

pany (Gordon Charles Davidson); Catalogue of Materials in the Archivo General de Indias for the History of the Pacific Coast and the American Southwest (Charles E. Chapman); The Audiencia in the Spanish Colonies as Illustrated by the Audiencia of Manila (Charles Henry Cunningham). Official Explorations for Pacific Railroads (George Leslie Albright); The Constitutional History of the Louisiana Purchase, 1803-1812 (Everett S. Brown).

Publications of the Academy of Pacific Coast History.—The San Francisco Clearing-House Certificates of 1907-08 (Carl Copping Plehn); the official account of the Portolá Expedition of 1769-1770 (Frederick J. Teggart); Diary of Gaspar de Portolá during the California Expedition of 1769-1770 (Donald Eugene Smith and Frederick J. Teggart); the Narrative of the Portolá Expedition of 1769-1770 by Miguel Constansó (Adolph van Hemert-Engert and Frederick J. Teggart); The United States Consulate in California (Rayner Wickersham Kelsey); Diary of Patrick Breen, One of the Donner Party, 1846-1847 (Frederick J. Teggart); Papers of the San Francisco Committee of Vigilance of 1851, I (Porter Garnett); The Portolá Expedition of 1769-1770—Diary of Vicente Vila (Robert Selden Rose); Papers of the San Francisco Committee of Vigilance of 1851, II (Porter Garnett); Expedition to San Francisco Bay in 1770—Diary of Pedro Fages (Herbert Eugene Bolton); The Portolá Expedition of 1769-1770—Diary of Miguel Costansó (Frederick J. Teggart); Expedition on the Sacramento and San Joaquin Rivers in 1817—Diary of Fray Narcisco Duran (Charles Edward Chapman); The Anza Expedition of 1775-1776—Diary of Pedro Font (Frederick J. Teggart); The Yuma Campaign of 1781-1782—Diary of Pedro Fages (Herbert Ingram Priestley); The Diary of Nelson Kingsley, 1849-1851 (Frederick J. Teggart); papers of the San Francisco Committee of Vigilance of 1851, III (Mary Floyd Williams).

INFORMATION FOR UPPER DIVISION STUDENTS

Classification of Upper Division Courses.—It will be seen on consulting the list of courses below that, in the upper division, the first course in each field of history ordinarily is a general survey (*cf.* courses 111, 121, 131, 141, 146, 151, 161, 162, 165, 171, 181). These general courses are followed by corresponding advanced courses in which some part of the larger field is studied intensively. (*cf.* courses 112, 122-124, 142-145, 147, 152-155, 166, 172-174, 182-189). No student will be restricted in the choice of upper division courses, but the department is ready to give advice in this matter, especially to students who are looking forward to a higher degree or to a teacher's recommendation with history as a major subject. The department recommends that at least one general (or 3-hour) course be followed by a corresponding advanced (or 2-hour) course.

INFORMATION FOR GRADUATE STUDENTS

General Requirements.—Students who wish to pursue graduate work in history must register immediately upon entrance with the Secretary of the Department in Room 30, Wheeler Hall. A member of the department is appointed to supervise the work of each graduate student. Graduates from other institutions, before admission to graduate work in history, may be tested as to their knowledge of both European and American history.

The High School Teacher's Recommendation.—For a major in history for the teacher's recommendation the requirement is the satisfactory completion of at least 30 units of history, of which at least 18 units must be upper division major and graduate courses. This major must represent work in both the European and American fields of history. No less than one full year course will be accepted in either of these fields. Upper division courses taken in the sophomore year may be included in this total of 30 units. Candidates are advised to take History 301, which is neither an upper division major course nor a graduate course, but is a professional course which is accepted as three units of the required 15 units of work in Education. For the teacher's certificate no specific courses in history are prescribed, but in their selection of work candidates should bear in mind that the subjects usually taught in high schools are: Ancient History, Medieval and Modern History, English History, and United States History.

Attention is called to the importance of Western and Spanish-American History as phases of emphasis in teaching United States History. Many junior colleges and some high schools desire special courses in Western and Spanish-American History.

For a minor in history for the teacher's recommendation the minimum requirement is 12 units of history of which at least 6 units must be upper division major courses.

The Master's Degree.—Students who wish to become candidates for the master's degree in history must have had, as undergraduates, a good training in advanced work in history. The minimum total requirement in history for the degree, comprising both undergraduate and graduate work, is 38 units, of which at least 18 must be upper division major courses and at least 8 must be graduate courses (including the thesis). Ordinarily the restricted number of courses offered in the summer will not enable students to do all the work for a master's degree in history in Summer Sessions.

Admission to Candidacy for the Degree of Doctor of Philosophy.—Before formal admission to candidacy for the degree of Doctor of Philosophy the work of the graduate student is supervised directly by the

department. After that step has been taken his work is supervised by his doctoral committee, appointed by the Graduate Council. For admission to candidacy for the degree of Doctor of Philosophy in history a graduate student must have satisfactory credit in the following courses, or their equivalents, which ordinarily may be completed by the end of the first year of graduate study:

(a) History 111, 121, 141 (if the student has taken History 4, he should substitute for 141 some other course in Modern European History approved by the department), and at least two other three-hour courses selected by the student with the advice of the department. At present the list of these other three-hour courses is as follows: 131, 146, 151, 161, 162, 165, 171, 181. At least one of the five three-hour courses so selected must be in some field of American History (courses 162, 165, 171, 181).

(b) At least two advanced courses following two of the above three-hour courses. At present the list of the advanced courses is as follows: 112, 122, 123, 124, 142, 143, 145, 147, 152, 155, 166, 172, 173, 174, 182, 189.

(c) At least 4 units of seminar or research work in one of the fields represented in (a) above.

(d) History 202.

Requirements for a Minor in History.—Candidates for the doctor's degree taking history as a minor must have completed with distinction at least 30 units of work in history of which at least 18 units must be upper division major and graduate courses, and, in addition, must have taken at least one seminar course in history.

EXAMINATIONS FOR THE DEGREE OF DOCTOR OF PHILOSOPHY

Preliminary Examination.—This examination shall take place not later than a half-year before the final examination, and it is urged that it be taken at least a year before the final examination. As early as possible in his graduate course the student should advise with the department concerning his plan of study. At the time when the candidate presents himself for admission to candidacy he must choose six subjects from the seven examination groups listed below, these subjects to represent the courses of at least four different instructors. Two subjects must lie within one of the first six groups. One subject must lie within group VII. The other three must lie within three of the remaining groups. In all cases there must be at least one subject chosen from either group V or group VI, and at least one subject must fall within a period of history prior to 1500 A.D.

The candidate must have credit for at least three seminars of 4 units each, lying within at least two of the first six examination groups. In each of the six subjects chosen the candidate will be held responsible

for work representing extensive reading, of a character more advanced than that required of undergraduates, and will be expected to have a knowledge of the bibliography, historiography, and the principles of historical method which apply to the subjects chosen.

The preliminary examination may be either written or oral, but the examination in at least one of the six subjects must be written.

Candidates with a minor in history will be examined in one subject within Groups I-VI.

Examination in Languages.—Every candidate for the degree of Doctor of Philosophy in history must pass a written examination in the languages required for the degree. It is highly recommended that this examination be taken as early as possible after admission to candidacy, and it must be taken not later than at the time of the preliminary examination.

Public Examination.—This examination will be oral, and will be based upon the special field within which the candidate's thesis lies. The field of the public examination will not be larger in scope, and may be smaller, than one of the "subjects" listed below.

The Doctoral Thesis.—The doctoral thesis must show high powers of research, must be a contribution to knowledge, must be well written from the standpoint of expression, and must be carefully edited by the student for publication.

EXAMINATION GROUPS

Group I

- Subject 1. Ancient Oriental history.
- Subject 2. History of Greece to 146 B.C.
- Subject 3. History of Rome to Augustus.
- Subject 4. History of the Roman Empire to Justinian.
- Subject 5. History of ancient religions.

Group II

- Subject 6. History of the middle ages, 500-1100.
- Subject 7. History of the middle ages, 1100-1500.
- Subject 8. Intellectual history of Europe, 500-1300.
- Subject 9. Intellectual history of Europe, 1300-1550.
- Subject 10. Medieval France.
- Subject 11. Byzantine history.

Group III

- Subject 12. Political and constitutional history of England to 1485.
- Subject 13. Political history of England, 1485 to the present.
- Subject 14. Constitutional history of England.
- Subject 15. History of the British Empire.

Group IV

- Subject 16. Modern European history, 1500-1648.
- Subject 17. Modern European history, 1648-1789.
- Subject 18. The French Revolution and the Napoleonic period.
- Subject 19. History of Europe since 1815.
- Subject 20. History of Eastern Europe.
- Subject 21. History of Russia.
- Subject 22. History of Spain and Portugal.

Group V

- Subject 23. History of the English colonies in America to 1783.
- Subject 24. History of the United States, 1783-1860.
- Subject 25. History of the United States, 1860 to the present day.
- Subject 26. Constitutional history of the United States.

Group VI

- Subject 27. History of the West.
- Subject 28. European expansion in North America.
- Subject 29. History of Hispanic-America to 1810.
- Subject 30. History of Hispanic-America from 1808.
- Subject 31. Spain in North America.
- Subject 32. History of Mexico.
- Subject 33. History of Brazil.
- Subject 34. Diplomatic History of Hispanic-America.
- Subject 35. History of Hispanic-American institutions.

Group VII

- Subject 36. One well-defined and limited subject in the candidate's minor, or, if he offers no minor, one subject in Political Science, International Law, Economics, etc.

GRADUATE COURSES

- 202A-202B. Historical Method and Bibliography. PAETOW.

The work in the course is based primarily on Langlois and Seignobos, *Introduction to the Study of History*. The second half-year is devoted largely to practical exercises.

- 211A-211B. Ancient History. VAN NOSTRAND.

The subject for 1919-1920 will be: Roman imperial administration in the third century A.D.

- 221A-221B. Medieval History. PAETOW.

For 1919-1920 the subject will be: The *De Recuperatione Terre Sancte* of Pierre Dubois and the history of thought in the early fourteenth century.

- *222A-222B. Introduction to Latin Palaeography and Diplomatics.

PAETOW.

The practical exercises in this course will be done mainly with facsimiles of manuscripts of the twelfth and thirteenth centuries.

- 241A-241B. Modern European History.

LEEBRICK.

The Metternichian period in Europe.

- 246A-246B. History of Slavic Europe.

FULLER.

- 251A-251B. Studies in Early English Institutions.

MORRIS.

For 1919-20 the subject will be: The Church in the Anglo-Saxon Period.

- †261A-261B. History of Spain and Portugal.

CHAPMAN.

For 1919-1920 the subject will be: The Spanish American war.

- *262A-262B. History of Hispanic America from 1808.

CHAPMAN.

- 265A-265B. History of Hispanic America to 1810.

PRIESTLEY.

For 1919-1920 the subject will be: Administrative reforms of Charles III in the eighteenth century.

- 271A-271B. History of the United States.

McCORMAC.

For 1919-1920 the subject will be: The "Irrepressible Conflict," 1850-1860.

- 281A-281B. Spain in North America.

BOLTON.

- 282A-282B. The Trans-Mississippi West.

BOLTON.

- *289A-289B. History of California.

CHAPMAN.

299. Thesis for the Master's Degree.

UPPER DIVISION MAJOR COURSES

- *107. Naval History.

LEEBRICK.

A survey of the history of sea power and its relation to the development of civilization. Special attention is given to the navy of the United States; its history, traditions and organization. The course attempts to give an appreciation of the problems and importance of sea power.

- 111A-111B. Ancient History.

VAN NOSTRAND.

(A) Greek history to the Roman conquest. (B) Roman history to the sixth century A.D.

Prerequisite: a reading knowledge of French, or German, or Italian.

* Not to be given, 1919-1920.

† Not given between January and December, 1920.

112A-112B. Roman Imperialism.

VAN NOSTRAND.

The effect of expansion upon the institutions of Rome. Success and failure of Rome as an imperial state.

Prerequisite: a reading knowledge of French or German or Italian or Latin.

121A-121B. Medieval History.

PAETOW.

A general survey of European history from about 500 to about 1500, based on Paetow, *Guide to the Study of Medieval History*, Part II.

Prerequisite: a reading knowledge of one of the following languages: French, German, Italian, Spanish, Latin.

*122A-122B. Medieval Culture.

PAETOW.

From about 500 to about 1300, with special emphasis on the twelfth and thirteenth centuries, based on Paetow, *Guide to the Study of Medieval History*, Part III.

Prerequisite: a reading knowledge of French or German.

*123A-123B. Medieval France.

PAETOW.

From the Treaty of Verdun to Louis XI. A general survey of political and social history. Considerable emphasis is laid on the history of institutions: (A) Feudal institutions; (B) Monarchical institutions.

Prerequisite: a reading knowledge of French.

124A-124B. Intellectual History of Western Europe in the Twelfth and Thirteenth Centuries.

PAETOW.

This course is based upon Paetow, *Guide to the Study of Medieval History*, Part III, Period 2.

Prerequisite: a reading knowledge of one of the following languages: French, German, Italian, Spanish, Latin.

*131A-131B. Renaissance and Reformation.

141A-141B. Modern European History.

LEEHRICK.

A study of the general history of Europe from about 1648 to 1914, based in part on Stephens, *Syllabus of a Course of Lectures on European History*.

Prerequisite: one of the lower division courses in history. A knowledge of a modern language is desirable.

*142A-142B. The French Revolutionary Period in Europe.

*143A-143B. The Napoleonic Period in Europe.

*145A-145B. History of Europe in the Nineteenth Century.

LEEHRICK.

A study of the various developments in European History in the last century.

A knowledge of a modern language is desirable.

* Not to be given, 1919-1920.

- 146A-146B. History of Russia and Eastern Europe. FULLER.
The development of Eastern Peoples since the Slavic immigration.
- 147A-147B. Diplomatic History of Europe since 1815. FULLER.
A general survey with the emphasis on international relations.
- 151A-151B. History of England. MORRIS.
Lectures on the political and constitutional history of England with the study of documents contained in Adams and Stephens, *Selected Documents of English Constitutional History*.
- 152A-152B. Constitutional History of England. MORRIS.
A detailed study of the origin and growth of the English Constitution. Especially designed for students of law.
Prerequisite: course 151A-151B (may be waived by the instructor).
- *155A-155B. History of the British Empire. MORRIS.
History of English colonies and dependencies.
- *161A-161B. History of Spain and Portugal. CHAPMAN.
The European background of Hispanic America, with special emphasis on institutions. (A) To 1516. (B) To date.
A reading knowledge of Spanish, Portuguese, or French is desirable.
- 162A-162B. History of Hispanic America from 1808. CHAPMAN.†
The wars of independence and the development of Hispanic American states, with emphasis on their relations with the United States. Special attention is given to conditions of life in South America at the present time.
A reading knowledge of Spanish, Portuguese or French is desirable.
- 165A-165B. History of Hispanic America to 1810. PRIESTLEY.
The discovery and occupation of Hispanic America; colonial policies of Spain and Portugal; development of their colonial political, economic, and social institutions, and a comparison of these with the institutional phases of other European expansions.
A reading knowledge of a modern language is desirable.

* Not to be given, 1919-1920.

† From January to December, 1920, Professor Chapman's courses will be given by Professor Aroya, unless otherwise stated.

- 166A-166B. History of Mexico. PRIESTLEY.
 The colonial background; the establishment of independence and the struggle for constitutional government; diplomatic relations with the United States; social and economic growth; recent political problems.
 A reading knowledge of a modern language is desirable.
- 171A-171B. History of the United States. McCORMAC.
 A general course dealing with the English colonies and the political history of the United States.
- 172A-172B. Constitutional History of the United States. McCORMAC.
 Colonial government; formation of the national constitution; historical development of constitutional government in the United States.
 Prerequisite: course 171A-171B (may be waived by the instructor.)
- *173A-173B. The Civil War and Reconstruction. McCORMAC.
 174B. History of the United States since 1876. McCORMAC.
 181A-181B. The History of the West. BOLTON.
 The settlement and development of the West, and its influence upon national and international affairs at each stage of advance. The emphasis will be upon the Trans-Mississippi West.
- *182A-182B. Spain in North America. BOLTON.
 A general survey of the establishment of Spanish rule and Spanish institutions of North America, followed by a more detailed study of Spanish activities in and relative to territory now within the United States.
 Prerequisite: course 161A-161B, or 181A-181B. A reading knowledge of Spanish is desirable.
- †189A-189B. History of California. CHAPMAN.
 The discovery and settlement by the Spaniards, the coming of the Americans, and the development of the American state.
- 199A-199B. Honor Course and Pro-Seminar: Historiography.
PAETOW and Members of the Departments.

TEACHERS' COURSE

301. The Teaching of History. MORRIS.
 A discussion of the teaching of history in secondary schools, with special reports and criticism of textbooks.

* Not to be given, 1919-1920.

† Not given between January and December, 1920.

HOUSEHOLD ART

Professor: M. F. PATTERSON.

Lecturer: L. CONANT.

Instructors: H. W. FANCHER, A. SWAINSON.

Facilities.—The household art division offers opportunity for graduate work leading to a master's degree. The artistic, historic and economic aspects of "clothing" and "shelter" are possible fields for study and may include all types of decorative arts and crafts, their design in material, and the past and present modes of manufacturing material, whether by hand or machine processes.

The literature for the study of ancient periods of costume and housing is identical with that of the departments of history, classical art, archaeology and architecture. Through the courtesy of these departments graduates in design and household art may have access to the best of these authorities for study and research.

For the use of students bent on advanced work it is always possible to borrow rare works not on file in the University Library from the Congressional Library and the Smithsonian Institute at Washington.

In the seminar room in the Home Economics building devoted to the work of this division is filed a working collection of books, photographs, color plates of costume, textiles and housing, folios of architectural plates, measured drawings of furniture, and lantern slides illustrative of period styles in these subjects.

Current journals and magazines on art are available for reference here.

This library is supplemented by the private libraries and collections of members of the department.

A small but representative collection of costumes and real laces, embroidery and woven patterned textiles is available in this department for study of the principal types which demonstrate the evolution of ornament and construction in fabric.

The Phoebe A. Hearst collection of Peruvian patterned textiles and the American Indian collections at the Affiliated Colleges are valuable for the study of weaving.

Mention should also be made of the collections of tapestries, rugs, furniture, et cetera, at the Palace of Fine Arts, Panama Pacific Exposition; of the Anthropological Museum at Berkeley and of the laces, furniture,

porcelains and jewelry at the Golden Gate Park Museum. The practical value of these collections for the identification and classification of real material can hardly be over-estimated.

Research.—A portion of the departmental budget is used each year for research. The form which this work may take is of three types:

A. Original decorations and illustrations in color, or black and white, with a background of library and museum research in historic ornament and a study of "pattern" in the world of natural history and science.

B. Theses may be written (and illustrated by photographs or original drawings) on artistic, historic and economic aspects of costume or housing, and the many beautiful and ancient crafts which are identified with these subjects, such as laces, embroideries, jewelry, cloisonné or champ-lévé enamels, patterned textiles, stained glass, decorative carvings, et cetera.

C. Compilation of bibliographies for publication on specific subjects in the field of household art, and outlining of courses of study for use in schools and colleges and for extension work in household art in the interest of standardization of such courses of study in this country.

Appropriate problems which may be presented as master's theses are:

1. Original designs for stage settings, properties, costumes, posters, and costume illustration.

This work is directly applicable to the needs alike of teachers and professional artists in the direction and presentation of plays, pageants, et cetera.

2. Advanced problems in interior decoration and house furnishing, both domestic and public in character. Such problems may include original textile design and ornamentation either in painted form or executed in fabric; or a study of the evolution of ornament in patterned textiles, viz.: oriental rugs, tapestries, printed cottons, silks, brocades, velvets, laces, embroideries, et cetera.

3. The study of period styles in other types of handicrafts such as metal work, silver, porcelain, furniture, wood-carving, et cetera, as inspiration for higher standards of taste in the design and manufacture of modern products.

In 1915 a master's degree was awarded for a thesis consisting of a survey of home economics work in universities throughout the United States with a view to the standardization of such courses.

In succeeding years historical research has been made and a full bibliography gathered for certain historical periods, as a preparation for the staging of plays. Small stage models have been designed and decorated, and costumes of certain periods have been designed and executed. Experimentation in the use of color with artificial light has been an important part of the stage problems.

A real stage setting was built and painted for a play given here at the University in 1917 as an original problem for design in material.

Another thesis represented research in the field of oriental rugs from the standpoint of design. For example ancient symbols and forms recur in the decorative work of many countries with slight changes in the typical form caused by the application of the design to a different material whose mode of fabrication limited in a constructive way the true expression of the original form.

In 1918 settings and costumes were designed and executed for "Aucassin and Nicolette," "Lord Thomas and Fair Annet," "Sister Beatrice," and "Aida."

In 1918 a thesis on "Ornamentation in Fabric" was written and illustrated and at the same time successful experimentation was carried out in original block-printed design and dyeing on silken fabric.

Other work especially useful for teachers has been undertaken in the compilation of bibliographies on specific subjects connected with education in the public schools of the state and outlines for courses of study for secondary and normal schools. For example, a thesis is now under way which offers a complete course of lessons, fully illustrated, for high school work in millinery. This will soon be in form for publication and distribution.

There are also under preparation some bulletins on "Textile Analysis and Tests" and "Suitable Wardrobes for College Girls."

Master's Degree.—Candidates for this degree must have manifested thorough knowledge of general history, the history of art, the evolution of design in ornament and to have ability for independent research as artists, designers, teachers or connoisseurs in the fields of decorative and applied art. A reading knowledge of French, or German, or Italian is most desirable for such research.

They should present 36 units of advanced studies (as set forth in the circular of information) in the College of Letters and Science, twenty-four of these being major work chosen from Group I, II, III, or IV as outlined under "Sequence of Courses," or their equivalent. In addition twenty semester units of graduate and upper division major courses, including a thesis, which may count for not more than 4 units, is required. Eight of these units must be strictly graduate work in the major subject, including the thesis. This requirement may be met by the Seminar in Costume Design or Interior Decoration (6 units each) with four additional units for research in connection with the thesis.

The thesis must satisfy such further regulations as are demanded by the Graduate Division and students who wish to become candidates for the master's degree in household art should consult with the departmental adviser before choosing a program.

Preliminary Requirements.—Four distinct groups of major courses leading to professional work in different fields of household art study are open to students in this subject:

I. *Training for the High School Teacher's Recommendation.*—This group should include lower division prerequisites for major work as stated under admission and prerequisites.

Candidates are required to complete the following major courses: Household Art 122, 160, 193A-193B, 194A-194B, 197A-197B, 198; Economics 182; Civil Engineering 125; and are strongly recommended to take Household Art 195A-195B, 176 or 177A-177B, and Advanced Design and Color.

Household Art 300 is required and eighty hours also of supervised practice teaching during the senior or graduate year should be offered in connection with Education 320. Credit for these courses is given in the School of Education. It is strongly recommended that this work should not be undertaken until the graduate year.

The graduate work for the fifth year may be chosen from Household Art 294A-294B, *295A-295B, 297 or *298. Students offering this major should add another semester of work if candidates for the master's degree.

II. *Specialization in Costume Design.*—This group should include the lower division prerequisites for major work as stated under admissions and prerequisites. Advanced work should include Household Art 193A-193B, 194A-194B, 197A-197B, 122, 198; Graphic Art 127 and 128; Courses recommended: Household Art 177 and *180; Economics 182; Advanced Design and Color, Foreign Language, French, German, or Italian. Graduate courses: Household Art 294A-294B and 299.

III. *Specialization in Interior Decoration.*—This group should include lower division prerequisites for major work with the addition of work in drawing and architecture as stated under admissions and prerequisites. Advanced work should include Household Art 195A-195B, 122, 198, 160; Architecture 110; Civil Engineering 125; Economics 182, and a choice should be made of four units from Household Art 176, 177A, 178 or *179A-179B. Courses recommended: Household Art *180; Landscape Gardening 101 and 103; Advanced Design and Color. Graduate courses: Household Art *295A-295B and 299.

IV. *Specialization in Occupational Therapy.*—This group should add to the lower division prerequisites for major work as stated above: Psychology 2A, which is required for Psychology 102B and advanced work should include Household Art 122, 193A-193B, 194A-194B, 197A-197B, 198, 176; Psychology 102B. Courses recommended: Household Art 177A-177B, 178, 179A-179B, 180; Economics 182; Advanced Design and Color. Graduate Courses; 294A-294B or *295A-295B; *298 and 299.

* Not to be given in 1920-1921.

GRADUATE COURSES

The Practice of Teaching.	FANCHER, SWAINSON.
In connection with Education 320.	
294A-294B. Seminar in Costume Design.	CONANT.
295A-295B. Interior Decoration.	The Staff.
*295A-295B. Interior Decoration.	The Staff.
297. Advanced Study.	PATTERSON.
*298. Occupational Therapy.	The Staff.
299. Thesis for the Master's Degree.	The Staff.

UPPER DIVISION MAJOR COURSES

193A-193B. The History of Costume.	PATTERSON.
194A-194B. The History of Costume, Laboratory.	———, CONANT.
300. Teachers' Course.	FANCHER, SWAINSON.
197A-197B. Review and Discussion of Technique by Practical Problems.	FANCHER.
122. Textile Raw Materials.	GILMORE.
198. Textiles.	SWAINSON.
160. House Management.	———
195A-195B. House Furnishing.	PATTERSON.
176. Applied Design: Basketry.	SWAINSON.
177A-177B. Applied Design: Metal Work and Jewelry.	SWAINSON.
178. Applied Design: Pottery.	SWAINSON.
*179A-179B. Applied Design: Furniture.	———
*180A-180B. Dyes and Dyeing.	———
199. Honor Course.	CONANT.

* Not given in 1920-21.

HOUSEHOLD SCIENCE

Professors: A. F. MORGAN, R. OKEY.

Instructors: A. W. WILLIAMS, A. H. METCALF.

Facilities.—The research laboratories of this division are equipped with the apparatus required for biochemical and bacteriological investigations in food and nutrition, and with adequate facilities for animal feeding experiments. Among the pieces of apparatus provided are: Atwater bomb calorimeter, Benedict universal respiration apparatus, colorimeter and nephelometer, besides such other equipment as is needed for the prosecution of research in metabolism, food analysis, and experimental cookery.

The files of journals and reference books used most frequently are housed in the main library building, and in the physiology departmental library, but a file of the Journal of Biological Chemistry, the publications of the American Chemical Society, and all necessary government publications are owned by the department, and available for use in the building.

Research.—The problems now under investigation are: (a) in food chemistry: changes in fats due to heating, bacteriological study of home canning methods, extraction of vegetables, control of gelation of fruit jellies, distribution of nitrogen in almond proteins.

(b) In nutrition: the nitrogen minimum, creatine and uric acid metabolism, utilization of inulin.

During the last year progress was made, (1) in the canning study by the isolation and experimental use of an anaerobe causing spoilage, (2) in the preparation of arginine for animal feeding and injection in the study of creatin formation, (3) in the preparation of a quantity of pure almond globulin, (4) in the extraction and analysis of vegetables for diabetic use.

Publications.—The following are titles of articles published from the department in the last year: the biological value of wheat and almond nitrogen; physical and chemical changes in fats during frying; effect of pack, initial temperature, and depth of bath in home canning.

Preliminary Requirements for Higher Degrees.—Candidates for higher degrees must present evidence of a satisfactory knowledge of chemistry, physiology and biochemistry, equivalent to that afforded by at least sixteen units of chemistry, and twelve units of physiology and

biochemistry. In addition the equivalent of courses 101A-101B and 120A-120B is required. A reading knowledge of German is necessary.

Master's Degree.—The seminar courses 216 and 219 or 220, course 130, or 125, and a laboratory research problem to be presented in the thesis are required for the master's degree. In addition a written examination is given covering the subjects studied in the graduate year. It is the policy of the department to discourage the presentation of technical education courses as part of the units for the master's degree.

High School Teacher's Recommendation.—The teachers' training course may be developed in either of two directions, (a) toward the preparation for high school teaching and supervision, or (b) toward vocational or extension teaching. The bachelor's degree with a major in household science is necessary as prerequisite for the graduate work for either of these types of teacher training.

(a) For the high school teacher's preparation in the graduate year courses 300, 216, and 80 hours of supervised practice teaching in household science in the University High School, along with the specified education courses, are required. In addition courses 125 or 130, 127, and such work as will provide minors in physiology, chemistry, household art, biochemistry, or economics, are recommended. At least two of these minors should be completed during the undergraduate course, leaving one only for the graduate year.

Summary of requirements for the high school teacher's recommendation with major in household science: Candidates are required to take courses 101A-101B, 120A-120B, and are strongly recommended to take also courses 127, 130, and Biochemistry 101. The candidate must pass, with credit, a final examination, both theoretical and practical covering the field of food preparation, food economics, and nutrition as presented in the high school.

(b) For vocational (Smith-Hughes) or extension (Smith-Lever) teacher's training the work of the fifth year is differentiated somewhat from that just described. Courses 300, 127, 216 are required, but the practice work is embodied in course 112, and consists of the teaching of specially organized classes of housewives and young women, and field work with nearby home demonstration agents. Considerable practice in the demonstration and project type of teaching, emphasis upon organization and publicity methods, are included.

The high school teacher's recommendation may be obtained by students pursuing this course, since with the consent of the School of Education the practice teaching requirement may be satisfied by the practice in course 112. The other requirements as specified above must be fulfilled.

Hospital Dietitian's Graduate Course.—The hospital dietitian's graduate year follows the usual undergraduate major in household science, and requires residence at the University of California Hospital in San Francisco. The course is offered in coöperation with the University of California Medical School and Hospitals, and is designed to furnish the practical as well as the theoretical training for the profession of hospital dietitian.

This course requires the equivalent of six months as practical dietitian in the hospital, the equivalent of six months clinic and laboratory practice, and the active prosecution of a problem in the metabolism laboratory, in clinic, or in some other field. Upon satisfactory completion of this problem, and of the prescribed credit-bearing courses to be included in the year curriculum, the degree of Master of Science is awarded the candidate.

The undergraduate sequence recommended as preparation for this work is as follows: 101A-101B, 120A-120B, 130, Biochemistry 101 (full course), Public Health Nursing, Economics 180 and 182.

In the graduate year courses 220, 216 and 219 as well as the prescribed hospital work, are included.

SCHEDULE OF THE GRADUATE COURSE IN HOSPITAL DIETETICS

1. Diet kitchen practice, three months, divided among the following duties:

- (a) Instruction in nutrition and cookery given to nurses.
- (b) Marketing and keeping records.
- (c) Making out of menus and requisitions.
- (d) Planning and preparation of special diets.
- (e) Preparation of modified milk formulas.

2. Clinic and laboratory practice period, four months.

- (a) Attendance and follow-up work in the clinics.
- (b) Laboratory practice or metabolism ward work.
- (c) Household Science 220 or 216.

3. Individual problem, four months:

- (a) Responsible charge of one or two duties, (a) to (e) under 1.
- (b) Intensive prosecution of a single problem, social, laboratory or administrative.
- (c) Household Science 219.

The thesis must be presented on the regular date set for that purpose for all candidates for higher degrees.

GRADUATE COURSES

- 214. Research.** MORGAN and OKEY.
The investigation of problems concerned with food preparation and metabolism.
- 215. Special Studies.** The Staff.
- 216. Seminar.** MORGAN.
Recent advances in the chemistry of food and nutrition, metabolism, and food economics.
- 219. Seminar in Disorders of Nutrition.** OKEY.
- 220. Seminar in Hospital Dietetics.** MORGAN.

UPPER DIVISION MAJOR COURSES

- 101A-101B. Food Economics.** WILLIAMS.
The composition, production, transportation and preservation of common foods with reference to public economy and conservation; individual selection and preparation of such food with reference to hygiene, nutritive value, flavor, and cost; an introduction to quantitative methods in food analysis.
- 102. Food and Dietetics.** OKEY.
Designed to meet the needs of students planning to take nurses' training. A brief survey of food economics, including food preparation, and the field of normal and abnormal nutrition; practice in the making of dietaries; calculation and preparation of special diets, and milk formulae.
- 106. Laboratory Methods in Metabolism.** MORGAN, OKEY.
Laboratory practice in urine, blood, and other analyses constituting the basis of modern chemical diagnosis. The course is designed to furnish the training for hospital and clinical laboratory technicians and research workers.
- 112. Extension Organization.** WILLIAMS.
The methods and materials involved in the organization and presentation of such scientific and economic facts and theories as may be helpful to the home-maker. Consideration of the problems of the teaching of vocational home-making under the provisions of the Smith-Hughes Act. Two periods per week are devoted to supervised demonstrations, lectures, continuation classes, arrangement of exhibits, and other forms of extension activity. Open to seniors or graduates in household science.

120A-120B. Dietetics.

MORGAN.

The quantitative basis of dietetics established through typical experiments in food analysis and calorimetry, digestion experiments, respiration and dietary records, nitrogen and mineral balances; the chemistry and physiology of digestion and metabolism with emphasis upon energy relations; the application of these principles to practical feeding problems of the individual and the group.

300. Methods of Teaching Household Science.

WILLIAMS.

Study of suitable equipment for teaching household science in elementary and secondary schools; planning of courses, and of single lessons; observations of classes; practice in demonstrations of food preparation and classification.

125. Quantitative Experimental Cookery.

WILLIAMS.

Food preparation under controlled conditions. Special problems are assigned to individual students as preparation for research in food and nutrition.

127. The Technique of Food Preparation.

WILLIAMS.

A critical constructive review of technique for students planning to teach cooking in the secondary schools. Open only to candidates for the teacher's recommendation offering a major or minor in household science.

130. The Nutrition of Development.

MORGAN.

The chemistry and physiology of ovulation, intra-uterine development, lactation, and growth; normal and subnormal nutrition in infancy and childhood; practice in the solution of feeding problems; clinic and follow-up work are included.

HYGIENE

Professors: R. T. LEGGE, J. N. FORCE, R. CUNNINGHAM.

Instructors: L. CAIRNS, M. BEATTIE.

Facilities.—In addition to the equipment necessary for the study of communicable diseases, the laboratory of hygiene contains apparatus for conducting the analysis of milk, water, and air from the standpoint of public health. The University Library contains a collection of standard books on hygiene and related subjects, together with the leading periodicals.

Research.—The principal researches which have been completed or are now in progress in the department of hygiene comprise studies of diphtheria and typhoid carriers, investigation of alleged air purification by means of ozone, transmission of poliomyelitis, culture of poliomyelitis and rabies, laboratory methods for differentiating between smallpox and chicken-pox, methods of simplifying cowpox vaccination, comparison of various types of typhoid vaccine, comparison of various types of smallpox vaccine, intradermal vaccination, development of bacteria, free smallpox vaccine, and the administrative application of the skin reaction of immunity.

Graduate Courses.—The graduate instruction in hygiene is closely related to medicine, sanitary engineering, economics, veterinary science, entomology, and zoology. The professional course in public health comprises a curriculum in these subjects, the completion of which leads to the degree of Graduate in Public Health.*

GRADUATE COURSE

201. Research in Hygiene.

FORCE.

UPPER DIVISION MAJOR COURSES

101. Child Hygiene.

LEGGE.

104. Public Health Administration.

FORCE.

107. Advanced Epidemiology.

FORCE.

108. Public Health Laboratory.

FORCE, BEATTIE.

300A. The Teaching of Hygiene.

CAIRNS.

* See Public Health.

IRRIGATION

Professors: B. A. ETCHEVERRY, S. T. HARDING.

Facilities.—In the general library is an extensive collection of American and foreign publications on all phases of irrigation. In the departmental library are collected special American and foreign government publications and engineering reports. The department has a large collection of drawings, blueprints, lantern slides, and photographs of irrigation structures. In the civil engineering museum are housed models and samples of special irrigation devices.

Research.—The scope of research work is indicated by the titles of problems such as: the irrigation district movement in California, the economic design of canals, the standardization of principles of design of structures used on irrigation systems, compilation of hydraulic data pertaining to the design of irrigation systems, a study of the literature on the water requirements of plants, and irrigation policies of foreign countries.

Preliminary Requirements.—Preliminary undergraduate attainments essential to full graduate standing in the department shall be either the completion of the undergraduate course of study prescribed for the irrigation course in the College of Civil Engineering, or the completion of the undergraduate course of study outlined for the irrigation course in the College of Agriculture in the prospectus of that college.

Master's Degree.—Students other than engineering students should elect Irrigation 208 in partial satisfaction of the requirements for a major for the master's degree.

GRADUATE COURSES

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| 202. Advanced Irrigation Design. | ETCHEVERRY. |
| 207. Operation and Maintenance of Irrigation Systems. | HARDING. |
| 208. Seminar in Irrigation. | ETCHEVERRY, HARDING. |
| 299. Thesis for the Master's Degree. | |

UPPER DIVISION MAJOR COURSES

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|--|-------------|
| 101. Irrigation Institutions and Economics. | HARDING. |
| 102A-102B. Irrigation Engineering. | ETCHEVERRY. |
| 103. Agricultural Use of Water and Irrigation Practice. | ETCHEVERRY. |
| 104. Drainage. | ETCHEVERRY. |
| 105A-105B. Agricultural Hydraulics and Elements of Irrigation Engineering. | ETCHEVERRY. |
| 112. Irrigation Design. | ETCHEVERRY. |
| 113. Agricultural Use of Water and Irrigation Practice. | HARDING. |
| 115. Irrigation Drawing. | HARDING. |
| 119. Undergraduate Thesis Course. | |

SCHOOL OF JURISPRUDENCE

Professors: W. C. JONES, Director of the School of Jurisprudence; O. K. McMURRAY, A. M. KIDD, *E. ELLIOTT, M. C. LYNCH, A. T. WEIGHT, M. RADIN, G. H. ROBINSON, C. H. LINDLEY.

Lecturers: W. E. COLBY, J. U. CALKINS, JR., B. N. GRIMES, M. W. DOBZENSKY, C. E. MARTIN.

Purpose of the School.—The design of the School of Jurisprudence is to furnish instruction, whether historical, theoretical, or practical, in the entire field of law, international, public and private.

Library.—The School of Jurisprudence occupies the Boalt Hall of Law, a building designed exclusively for the purposes of legal instruction. A valuable law library is accessible to the students. The general library of the University, in close proximity to Boalt Hall, is available to law students on the same terms as to other students. The Bancroft Library of Pacific Coast History has much material of value to the law student. A law library fee of twelve dollars and fifty cents each half-year is charged all students, regular and special, who are registered in more than one professional course in law. The money accruing from such fees is devoted to the purchase of books for the law library.

Degree of Juris Doctor.—The degree conferred by the University on the satisfactory completion of the professional curriculum is Juris Doctor (J.D.). It is awarded only to the holders of an academic bachelor's degree. The normal minimum time for the completion of the combined academic and legal curriculum is six years. While students are encouraged to obtain the A.B. degree before entering the School of Jurisprudence, those who have full Junior standing are admitted to the four-year curriculum, and those who have full Senior standing are admitted to the three-year curriculum. A student registered in the three-year curriculum must complete the curriculum of the first year and forty-four units of graduate work in the second and third years in order to receive the law degree. A student registered in the four-year curriculum must complete the curriculum of the first and second years and forty-four units of graduate work in the third and fourth years. In the graduate years, credit for not more than twelve units will be given for any half-year and at least eight units must be passed in order to maintain residence. Work done in the Summer Session may be counted for units, but not for residence, toward the requirements for the degree of J.D. Every

* Absent on leave, 1919-20.

candidate for the degree of J.D. must present an acceptable dissertation on some legal topic. In addition to the regular course examinations which are for the purpose of promotion from class to class, an examination based upon the work of the entire three or four years is required of all candidates for the degree. The examination may be either written or oral or both, and may include the working out of practical problems in the law library. The purpose of the examination is to test the ability of the student to correlate the subjects studied, formulate general principles, ascertain with accuracy the statutes and decisions, and apply the whole to the solution of a concrete case. The examination does not call for detailed knowledge; it is not to be a mere test of memory, but is intended for the sole purpose of determining the efficiency developed by the careful work of three years.

Graduate Courses.—On the historical and theoretical side the School offers courses in international law, Roman law, jurisprudence, or the theory of law, on various topics in the history of the common law, and studies in comparative law. On the practical side, it offers a complete professional curriculum. The main body of this curriculum is of general application, constituting a preparation for the practice of law in any jurisdiction which is founded on the common law. At the same time, emphasis is given to courses which direct attention to local legal conditions and practice in the Western states, such as mining law, water law, and code procedure. The case method of instruction is used in the professional courses. The endeavor is made to equip the student as fully as possible for the immediate and ready prosecution of his profession. The course in code procedure aims to familiarize the student with the more generally prevailing rules of procedure in American courts, and more particularly in the Pacific Coast states. The proceedings in connection with an action, from the selection of the tribunal to the final judgment, are covered. The course in practice aims to train the student in the preparation of all legal papers, in the examination of authorities, and in the making of briefs. Law clubs are organized which hold moot courts with the advice and assistance of members of the Faculty. The law courses are so arranged that ordinarily a student cannot enter advantageously except at the beginning of the academic year in August. A number of courses in law are given in connection with the summer session of the University.

The California Law Review is published bi-monthly by the faculty and students of the School. It contains in each issue a number of articles on legal subjects and comments on the important current cases decided by the Supreme and Appellate Courts of California and of the Pacific Coast states.

THREE-YEAR CURRICULUM

FIRST YEAR

111A-111B. The Law of Property, I.	KIDD.
112A-112B. The Law of Torts.	JONES.
113A-113B. Criminal Law and Procedure.	ROBINSON.
115A-115B. The Law of Contracts.	LYNOH.
119. Common Law Pleading.	WRIGHT.
120. The Law of Associations, I. (Agency.)	WRIGHT.
122. Equity, II.	LYNOH.

SECOND YEAR

217. The Law of Property, II.	McMURRAY.
*202. Constitutional Law.	JONES.
225. Law of Associations, II. (Agency, Partnership, Corporations.)	WRIGHT.
227. Equity, II. (a) Equity, (b) Trusts.	LYNOH, RADIN.
230. Business Law. A study of special topics in negotiable instruments, mortgages, trust deeds, banking, with a view to developing the place of these subjects in legal theory and in the modern business world.	KIDD.
231. Suretyship.	RADIN.
*235. Damages.	_____
216. The Law of Mines. A lecture course dealing primarily with the American law governing mines and mineral lands situated on the Public Domain embraced within the Western states and territories.	COLBY.
210. The Law of Water. A lecture course supplemented by a critical study and discussion of leading cases and mainly devoted to a consideration of the water law and rights in force in the Western states.	COLBY.
*203A-203B. Seminar in International Law.	ELLIOTT.

* Not to be given 1919-20.

THIRD YEAR

221. The Law of Evidence. KIDD.
229. Code Procedure. CALKINS.
 Analysis and development of the fundamental notions underlying the American Reformed System of Civil Procedure.
240. Conflict of Laws. McMURRAY.
224. The Law of Sales. RADIN.
226. The Law of Public Service. ROBINSON.
208. The Law of Municipal Corporations. JONES.
243. Insolvency and Bankruptcy. ROBINSON.
218. The Law of Mines and Water. COLBY.
250. The Law of Persons. WRIGHT.
209. Anglo-American Jurisprudence. RADIN.
 A research course which will be devoted to a study of the definition and history of fundamental legal concepts, with particular reference to the present terminology and classification of the law.
245. Comparative Law. RADIN.
 Studies in the comparative history of selected legal ideas and institutions.
244. Admiralty. WRIGHT.
254. Seminar in Admiralty and Maritime Law. WRIGHT.
 Prerequisite: course 224.
233. Practice. KIDD.
 In connection with this course students are expected to draft the ordinary legal documents of office practice and the papers required in the different stages of actions and special proceedings.
251. Quasi-Contracts. RADIN.
207. Seminar in Roman Law. RADIN.

UPPER DIVISION COURSES

- 103A-103B. Principles of International Law. MARTIN.
- 105A-105B. Roman Law; Jurisprudence. RADIN.
- 107A-107B. Anglo-American Legal Institutions. McMURRAY.
- Elementary Roman Law. [See Latin 121.] MERRILL.

Select Titles from the Digest. [See Latin 181.]
 109. School Legislation of California.
 118A-118B. Advanced Commercial Law.
 Greek Law. [See Greek 153.]

MERRILL.
 GRIMES.
 RADIN.

FOUR-YEAR CURRICULUM

FIRST YEAR

Prescribed Courses

115A-115B. The Law of Contracts.
 112A-112B. The Law of Torts.
 107A-107B. Legal History.
 119. Common Law Pleading.
 122. Equity, I.

LYNCH.
 JONES.
 McMURRAY.
 WRIGHT.
 LYNCH.

Elective

103A-103B. Principles of International Law.

MARTIN.

SECOND YEAR

Prescribed Courses

111A-111B. The Law of Property, I.
 105A-105B. Roman Law: Jurisprudence.
 120. The Law of Associations, I. (Agency.)
 227. Equity, II. (a) Equity, (b) Trusts.

Elective

113A-113B. Criminal Law and Procedure.

THIRD YEAR

Prescribed Courses

217. Law of Property, II.

Elective

202. Constitutional Law.
 225. Law of Associations, II. (Agency, Partnership, Corporations.)
 243. Insolvency and Bankruptcy.
 224. Sales.

- 230. Business Law.
- 244. Admiralty.
- 216. Law of Mines, I.
- 210. Law of Water, I.
- 250. Law of Persons.
- 251. Quasi-Contracts.
- 203A-203B. Advanced International Law
- 270. History of European Law.
 - Foreign Systems of Law.
 - History of Bench and Bar.
 - Problems of Law Reform.

FOURTH YEAR

Elective

- 240. Conflict of Laws.
- 221. Evidence.
- 229. Code Procedure.
- 226. Law of Public Service.
- 245. Comparative Law
- 233. Practice.
 - Administrative Law.
- 208. Law of Municipal Corporations.
 - Advanced International Law.
 - Advanced Roman Law.
 - Advanced Jurisprudence.
 - Legislation.
 - Problems of Legal History.

LATIN

Professors: W. A. MERRILL, L. J. RICHARDSON, C. PRICE, H. C. NUTTING, O. M. WASHBURN, M. E. DEUTSCH, T. PETERSSON.

Classical Philology.—The University Library is well-equipped for advanced students in classical philology, for whose use four seminar rooms have been set aside. In these rooms are reserved complete sets of all the important journals, texts of the classical authors, and such manuals and other works as are essential for the prosecution of advanced studies.

Epigraphy and Palaeography.—To provide material in epigraphy and palaeography, a fairly complete working library has been built up, while, through the generosity of the late Mrs. Phoebe A. Hearst, about seven hundred facsimiles of inscriptions were made in Rome for the Department. In deciphering these facsimiles the student is given the great advantage of working with perfect copies.

In palaeography, students, aside from practice in reading facsimiles have the privilege of working on original manuscripts belonging to the department. The number and variety of these manuscripts compensate, to some extent, for lack of access to the great libraries of Europe.

Classical Archaeology.—The Library now possesses complete sets and the current numbers of the more important European and American archaeological journals, as well as a large proportion of existing monographs, reports of excavations, and collections of reproductions of ancient monuments.

The Museum collections in classical archaeology include many original pieces of Greek, Etruscan and early Italian material, while a large series of plaster casts illustrates the best work of the principal periods of ancient art. The University has a cabinet of about three thousand coins and medals, including some eighteen hundred ancient coins of Greek States and Kingdoms, coins of the nations of Spain and Gaul, coins of early Italic states, gentile coins of Rome, and coins of the Imperial period. There are, also, many engravings, photographs and squeezes, and about four thousand lantern slides, illustrating the topography, epigraphy, monuments, art and life of ancient Greece and Rome.

The classical exhibits of the Phoebe A. Hearst collections, to be incorporated in the projected University Museum, contain many original specimens of Cypriote, Greek, Roman and Etruscan vases. There are, besides, the contents of fifteen Etruscan, Graeco-Etruscan and Roman Etruscan tombs from the ancient cemeteries of Abbadia del Fiume,

Sovana and Aurinia-Saturnia in Southern Etruria. A group of sepulchral pottery, and of stone effigies, from the neighborhood of Viterbo, includes a dozen life-size portraits of Etruscan citizens reclining on the lids of their own sarcophagi. The collections contain selected electrotype copies of the gold and silver objects from the royal tombs of Mycenae. The sepulchral traditions of the race to which Herodotus credits the invention of glass finds illustration in a collection of antique glasses and other tomb furniture from Syria. A group of facsimile reproductions after glass vessels of the Roman period, found in the Rhine Valley, supplements it. There are, besides, weapons, stone carvings, terra-cotta figurines and small bronzes of sepulchral origin. A collection of about one hundred examples of Greek and Roman sculpture in marble includes some specimens which occupy a definite place in the history of ancient art. It is an assemblage, by purchase, of pieces recently discovered in Italy, Greece and Asia Minor. There is a unique series of facsimile copies after the portrait panels of Greek mummies discovered in the Fayoum, Egypt, and preserved in the collections of Theodore Graf in Vienna, and of the British Museum and National Gallery in London, besides three original masks and one original painting. A group of Byzantine eikones from Italy and Russia illustrates the long survival in Christian art of Greek methods of painting.

Publications.—The classical departments of the University maintain a series known as University of California Publications in Classical Philology, which is now completing eight volumes. Original work done by graduate students may be admitted to the series as well as the results of research made by members of the departments.

High School Teacher's Recommendation.—Normally, 15 (but for members of the class of 1922 and thereafter 18) units of major work in Latin which must include courses in composition. The necessary credit in the latter (namely, four units in *numbered* courses) can usually be acquired in the lower division. The work must be distributed in such a way as to show acquaintance with Ante-Classical and Imperial Latin, and with poetry as well as prose, and must in other respects be well balanced. Candidates should arrange a programme not later than the beginning of the senior year.

All candidates must have a teaching knowledge of the elements of Latin. Proficiency in specialized advanced work will in no case be allowed to offset this requirement. The teacher's course in the department is the following :

300. Teachers' Training Course.

RICHARDSON.

Problems in teaching Latin; estimates of textbooks; examination of questions in pronunciation and syntax; exercises in teaching preparatory authors.

Prerequisite: senior or graduate standing.

Master's Degree.—For the master's degree with Latin as the major subject, the usual course taken is the Latin Seminar, Course 234. By special permission of the department, which must be obtained not later than the first week of the half-year in which the degree is to be conferred, approved combinations of other graduate courses may be presented, including such graduate courses as may be offered in the summer session. The required thesis may grow out of the work of any one of the courses taken by the candidate.

For the master's degree in classical archaeology, Course 283 is required. The thesis must be on an archaeological subject and must be approved by the sub-department of classical archaeology.

Before undertaking a course of study looking toward a higher degree, every student must submit his proposed schedule for approval by the department's committee on higher degrees, through the chairman of the department.

Doctor of Philosophy.—The Latin department reserves the right to examine all persons who wish to apply for candidacy for the degree of Doctor of Philosophy, with Latin as a major. Ordinarily, Greek must be one of the minors when Latin is the major. The second minor may be ancient history, Sanskrit, linguistics, one of the Romanic languages, the Italic dialects, Roman law, archaeology, or any other subject that is consistent with the unity of the intended course as a whole. When Latin is a first minor the candidate is expected to do two of the three years' work required of a major student. When it is the second minor, the first year's work without alternative, must be done.

SUGGESTED PROGRAMME FOR PH.D. WITH LATIN AS A MAJOR

Preliminary.—Reading knowledge of French and German; twenty-seven hours of undergraduate Latin which must include course 104. **First Year:** Latin 112 (Composition III); Latin Seminar; History of Roman Literature; Political History of Rome to 476 A.D. **Second Year:** Outline of the Encyclopedia of Classical Philology; Latin Grammar and Philology; Latin 113 (Composition IV); Roman political and social antiquities in general, with special treatment of some particular topic; general study of two or more authors or parts of authors, one prose and one poet, equal in all to 1000 pages Teubner text (standard that of an ordinary critical and exegetical edition); cursory reading of 2500 pp. of Teubner text, preferably the entire works of two poets and two prose writers, not included in other requirements (an ante-classic and a post-classic writer must be included unless chosen to satisfy other requirements; announcement of subject of Thesis). **Third Year:** A Thesis on a subject selected by the candidate; special and exhaustive treatment in

writing of 500 lines of an author not treated in the seminary; proof of ability to read at sight any Latin author; essay in Latin of at least 2000 words.

Courses.—The courses given in the department vary somewhat from year to year. The list below comprises those offered in 1919–20.

GRADUATE COURSES

234A–234B. Latin Seminar. (Statius, <i>Silvae</i> .)	MERRILL.
277. Life of Caesar.	DEUTSCH.
283A–283B. Seminar in Classical Archaeology.	WASHBURN.
285. Advanced Latin Composition.	NUTTING.

UPPER DIVISION MAJOR COURSES

The *advanced* courses in the Upper Division presume a working knowledge of German and French.

104. Latin Composition, II.	DEUTSCH.
107. Tacitus, <i>Germania</i> and <i>Agricola</i> .	NUTTING, PETERSSON.
112A–112B. Latin Composition, III.	NUTTING.
113A–113B. Latin Composition, IV.	MERRILL.
115. Roman Elegiac Poetry.	DEUTSCH.
116. Ovid, <i>Fasti</i> .	RICHARDSON.
117. Virgil's <i>Georgics</i> .	RICHARDSON.
118. Suetonius.	NUTTING.
119. Patristic Latin.	MERRILL.
121. The Institutes of Justinian.	MERRILL.
123. Tacitus; Suetonius.	MERRILL.
124. Early Latin.	PRICE.
125. Lucretius: <i>De Rerum Natura</i> .	PETERSSON.
132. Pastoral Literature.	DEUTSCH.
300. Teachers' Training Course.	RICHARDSON.
130. Latin Verse Composition.	RICHARDSON.
140A. A Latin Grammar: Noun.	NUTTING.
141. Palaeography and Text Criticism.	PRICE.
151. Cicero: <i>Tusculan Disputations</i> .	NUTTING.
153. Roman Private Life.	WASHBURN.

154. Ancient Rome.
159. Latin Syntax.
173. Virgil's Aeneid.
176. The Roman Novel. /
181. Select Titles from the Digest.
188. Caesar and Nepos.
191. Cicero.
193. Virgil from the Monuments.

WASHBURN.
NUTTING.
DEUTSCH.
PETERSSON.
MERRILL.
NUTTING
PETERSSON.
WASHBURN.

MATHEMATICS

Professors: M. W. HASKELL, D. N. LEHMER, F. CAJORI, C. A. NOBLE, T. M. PUTNAM, Dean of the Lower Division; J. H. McDONALD, B. A. BERNSTEIN, F. IRWIN, T. BUCK.

Instructors: P. SPERRY, F. R. MORRIS.

Facilities.—The University Library contains an excellent collection of standard and current works in all branches of mathematics, including complete sets of nearly all the mathematical periodicals and the publications of learned societies. The department has also a good collection of geometrical models.

Research.—The members of the department and the graduate students are at present engaged in research in number-theory, analytic and synthetic projective geometry, elliptic functions, the foundations of mathematics and the history of mathematics. Some of their results are published in the mathematical series of the University of California publications.

Preliminary Requirements.—For admission to graduate courses it is assumed, in general, that the student is well grounded in the differential and integral calculus, including the elements of differential equations; analytic geometry of two and three dimensions, and the elements of projective geometry; theory of algebraic equations.

Graduate Courses.—Courses in the theory of functions, in partial differential equations, and in the logic of mathematics are usually offered each year. Courses in the various fields of higher mathematics are offered at longer intervals. The function of these courses is to give an outline of the subject, to direct collateral reading, and to stimulate the student to independent search. In the mathematical seminars candidates for the higher degrees are guided in the preparation of theses.

High School Teacher's Recommendation.—The programmes of candidates for recommendation for this certificate should include the following courses: 5, 6, 8, 9, 101, 102, 104, 218, 300. They are advised to elect as many as possible of the following: 109, 111, 112, 114.

Master's Degree.—Candidates for the master's degree with mathematics as the major subject are required to enroll in a mathematical seminar for at least four units, and to elect at least one other graduate course in each half-year.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy, with mathematics as a major subject, are expected to complete in each of the fields of algebra, analysis, and geometry a full year in the graduate division, and to enroll in the mathematical seminar for at least one year. From this point the work is mainly individual, its character and scope being determined by the tastes and ability of the student. The candidate is strongly urged to select either physics or astronomy as one of his minor subjects.

GRADUATE COURSES

203-204. Seminar in the History of Mathematics.	CAJORI.
211. Higher Plane Curves.	HASKELL.
212. Theory of Algebraic Surfaces.	LEHMER.
213. Synthetic Projective Geometry.	LEHMER.
218A-218B. Logic of Mathematics. Analysis of the foundation principles of geometry and algebra.	BERNSTEIN.
222. Theory of Functions of a Real Variable.	PUTNAM.
223. Partial Differential Equations.	MCDONALD.
224. Theory of Functions of a Complex Variable.	NOBLE.
225. Elliptic Functions.	NOBLE.
227. Differential Geometry. Application of differential and integral calculus to curves and surfaces.	BUCK.
228A-228B. Modern Analytic Geometry.	HASKELL.
231. Theory of Numbers.	LEHMER.
233. Theory of Groups. Part I. Theory of groups of substitutions, with application to the theory of equations.	PUTNAM.
234. Theory of Groups. Part II. Elements of continuous groups, with application to differential equations.	HASKELL.
235. Seminar in Group Theory.	HASKELL.
237. Calculus of Variations.	NOBLE.
250. Mathematical Colloquium.	LEHMER.
251. Special Study and Research.	The Staff.
299. Thesis for the Master's Degree. Seminar.	MCDONALD.
300. Teaching of Mathematics in Secondary Schools.	CAJORI.

UPPER DIVISION MAJOR COURSES

101. Elementary Geometry for Advanced Students.	NOBLE.
102. Elementary Algebra for Advanced Students.	NOBLE.
104A-104B. History of Mathematics.	CAJORI.
105. History of Physics.	CAJORI.
109A-109B. Calculus, Advanced Course.	IRWIN.
110A-110B. Advanced Calculus.	BUCK.
111. Theory of Algebraic Equations.	PUTNAM.
112. Solid Analytic Geometry.	PUTNAM.
114. Advanced Analytic Geometry.	HASKELL.
118. Algebra of Logic.	BERNSTEIN.
119. Differential Equations.	IRWIN.
120. Theory of Probability.	BERNSTEIN.
125A-125B. Analytic Mechanics.	MCDONALD.
199A-199B. Honors Conference.	HASKELL.

MECHANICAL AND ELECTRICAL ENGINEERING

Professors: C. L. CORY, Dean of the College of Mechanics; J. N. LECONTE, B. F. RABER, B. M. WOODS, L. N. ROBINSON, H. B. LANGILLE, G. L. GREVES, F. L. CHERRY, A. PRESS, A. B. DOMONOSKE.

Instructors: B. R. VANLEER, L. M. K. BOELTER, G. E. COX, J. GEORGE.

Lecturer: D. W. DICKIE.

Facilities.—The general equipment of the electrical laboratories includes alternating and direct current generators and auxiliaries of sufficient capacity for any work not requiring more than seventy-five kilowatts. These may be used by the graduate student without interfering with the regular undergraduate testing courses.

In addition, the following equipment has been provided for the exclusive use of the graduate student: a fully equipped photometer; an oscillograph, suitable for the observation of transient or steady alternating current phenomena; a Vreeland oscillator; and a standardization laboratory, supplied with Reichsanstalt standards, standard cells, condensers, a Wolff potentiometer, galvanometers, precision transformers, and portable secondary standards. For the study of power transients and surges, the equivalent of approximately twenty-five miles of high tension transmission line with distributed constants, has been duplicated artificially, to which it is expected additions will be made from time to time. Special investigation of telephonic transmission and duplication of transmission line regulation is facilitated by a complete eleven-section artificial line with "lumped" or concentrated constants.

A high frequency and radio laboratory has recently been constructed and equipped. Provision has been made for moderately high potential insulation tests, the equipment including a 10 K. V. A. 60 cycle, 50,000 volt transformer; electrostatic voltmeters, with ranges from 5,000 to 100,000 volts; and a 5 K. W. 500-cycle generator.

Every effort will be made to facilitate and meet the requirements of advanced electrical engineering problems.

The laboratories for mechanical engineering and its allied subjects have been especially designed for the investigation of problems peculiar to the Pacific Coast. To this end steam engineering laboratories are equipped with necessary facilities for investigating steam power plant problems with a special reference to the use of steam as an auxiliary to hydro-electric practice. A completely equipped power plant, used ordinarily for the generation of power for the university supply, is avail-

able for such investigation. Compound engines and complete standardizing and testing apparatus are available.

The gas manufacture laboratories, a gift to the University from the Pacific Coast Gas Association, offer facilities for the investigation of the new and interesting problems relating to oil gas manufacture. Complete standardizing apparatus for calorific tests and the measuring of luminosity as well as a full line of gas analysis equipment are found for the investigator. The investigation of the possible utilization of electrical energy as an aid to the production of furnace temperatures for the manufacture of oil gas is at present a live problem and this laboratory is being equipped for such an investigation.

The requirements for accurate water measurement have been fully appreciated and there have been provided weighing tanks and scales of ample capacity, weirs supplied with hook gauges reading to one one-thousandth of a foot, measuring tanks, with hook gauges reading to one-tenth of an inch, nozzles, orifices and various types of meters, and provision made for the exact calibration of this equipment.

Pressures are measured by standard pressure gauges, and accurately designed manometer tubes.

Problems involving the laws of flowing water, such as loss due to sudden enlargements, loss due to sudden contractions, investigations of diffuser cones, et cetera, or those relating to pumping machinery, power developing machinery, and measuring devices, offer large fields of investigation for the student.

For work demanding a constant head not exceeding forty feet, a stand-pipe six feet in diameter and forty feet high is used. By overflow valves placed at different heights, the desired head can be obtained. Beyond this, and up to two hundred and fifty feet, electrically driven pumps are used and by utilizing by-pass valves any adjustment can be made.

Fees.—Laboratory deposits in this department are at the rate of \$5 a half-year for each laboratory or mechanical practice exercise a week. The average amount returned to the student at the end of the half-year is two-fifths of the deposit.

GRADUATE COURSES

Graduate students who wish to engage in advanced work in hydraulics, thermodynamics, mechanical engineering, electrical engineering, or related subjects will be admitted to any of the courses offered, on giving evidence that they possess the fundamental knowledge which will enable them to do justice to the instruction. They will also be given all possible assistance outside the lecture room in pursuit of advanced study and original investigation. A well equipped building is devoted to the work of these branches of engineering.

**ELECTRICAL ENGINEERING
GRADUATE COURSES**

212A. Advanced Theoretical Electrical Engineering.	PRESS.
212C. Electrical Engineering Research Laboratory.	The Staff.
214. Electric Traction.	ROBINSON.
216. Power Plant Engineering.	ROBINSON.
217. Electrical Oscillations.	PRESS.

UPPER DIVISION MAJOR COURSES

100A-100B. Direct and Alternating Current Machinery.	GREVES.
100C-100D. Direct and Alternating Current Laboratory.	GREVES.
110A-110B. Electrical Machinery and Construction.	CORY.
110C. Electrical Laboratory.	ROBINSON, GREVES.
111A-111B. Alternating Currents and Machinery.	CORY.
111C-111D. Alternating Current Laboratory.	ROBINSON.
114A-114B. Thesis.	The Staff.
115A-115B. Advanced Radio Communication.	PRESS.
115C-115D. Advanced Radio Laboratory.	PRESS.
119A-119B. Elements of Electrical Design.	PRESS.

MARINE ENGINEERING AND NAVAL ARCHITECTURE

101A-101B. Naval Architecture.	DICKIE.
102A-102B. Naval Architecture Drafting.	DICKIE, DOMONOSKE.
103A-103B. Marine Engineering.	DICKIE.
104A-104B. Marine Engineering Drafting.	DICKIE, DOMONOSKE.
105A-105B. Nomenclature in Shipbuilding.	DICKIE.
106A. Construction and Operation of Ships.	DICKIE.

**MECHANICAL ENGINEERING
GRADUATE COURSES**

215A-215B. Advanced Engineering Mechanics and Hydraulics.	LeCONTE.
219. Mechanical Engineering Research Laboratory.	RABER.
220. Gas Power Engineering.	RABER.

UPPER DIVISION MAJOR COURSES

102A-102B. Engineering Mechanics.	LECONTE, WOODS.
103A. Hydraulics.	LECONTE.
103B. Hydraulic Machinery.	LECONTE.
104A-104B. Kinematics.	LANGILLE.
104C-104D. Kinematics Drafting.	LANGILLE.
105A-105B. Heat Power Engineering.	RABER.
106B. Machine Design.	LANGILLE, DOMONOSKE.
106C. Advanced Machine Design.	LANGILLE, DOMONOSKE.
107A. Hydraulic Laboratory.	VANLEER.
107B. Steam Engineering Laboratory.	RABER.
114A-114B. Thesis.	The Staff.
115A-115B. Thermodynamics.	RABER.
117A-117B. Experimental Engineering, Hydraulics.	VANLEER.
117C-117D. Experimental Engineering, Heat Engines.	RABER.
121. Aerodynamics.	WOODS.
126. Steam Turbines.	LANGILLE.

MINING AND METALLURGY

Professors: FRANK H. PROBERT, Dean of the College of Mining; L. C. UREN, W. S. WEEKS, E. A. HERSAM, W. S. MORLEY.

Facilities.—The Hearst Memorial Mining Building, the gift of Mrs. Phoebe A. Hearst, is occupied by the department of mining and metallurgy of the University of California.

The building has three large lecture rooms and the laboratories are equipped so that both undergraduate and advanced work may be undertaken in any branch of mining, metallurgy, or petroleum engineering.

On the basement floor the compressor room and adjoining laboratories offer facilities to students in the several mechanical phases of mining engineering work, such as ventilation, drainage, illumination, explosives, drills and drill steel, hoisting and transportation. A carpenter shop and pipe-fitting room form part of the suite. Commodious lockers and bath-rooms are conveniently located with reference to the Students' Mining Association room.

On the main floor are the administrative offices, a well stocked library, assaying and metallographic laboratories wherein chemical and microscopic examinations can be made of ores, and the several products of mine, mill and smelter. A smelting room equipped with small blast furnace, ore and coke bins and other appurtenances, also reverberatory furnace, and the necessary switchboard for electric smelting is housed in this section, adjoining a well equipped ore dressing laboratory in which both large scale and bench experimentation may be done in water or oil concentration. The Lawson Adit, now about 500 feet long, offers exceptional opportunity for actual mining experience and the working out of problems connected with underground mining.

On the second floor, in the advanced metallurgical laboratories, provision is made for research on fuels, the precious and base metals, and the rarer ores. A modern petroleum laboratory now invites experimental work in oil technology, in addition to which there are on this floor three large rooms given up for instruction in mechanical drawing, surface and mine mapping, and the several processes of reproducing and recording engineering data.

In the vestibule and on the balconies are many splendid exhibits pertaining to the industry, with a number of models illustrative of the principles of mining law.

The U. S. Bureau of Mines, at the invitation of the University of California, has recently established a mine rescue station in the building, in charge of the district engineer. A two-ton Packard truck with ten sets of oxygen breathing apparatus and all auxiliary equipment will be stationed here, so that all students in mining may be trained in this important work. A regular crew will be chosen from among the advanced students, who, in time of emergency, will man the truck and render aid in the event of a mine disaster in the state. Regular visits will be made to the several mining districts, and a comprehensive investigation of prevailing mining and metallurgical methods is anticipated in the near future, under the combined direction of the Federal Bureau and State organizations.

The Pacific Coast Experiment Station of the U. S. Bureau of Mines, under the direction of Dr. L. H. Duschak, occupies half of the main floor of the building. This station is given up to the investigation of chemical and metallurgical problems, primarily of moment to the State of California, but of importance to the whole industry. Opportunities are given to advanced students of the University to collaborate with the Bureau and to carry on research under these unusually favorable conditions.

Preliminary Requirements.—Few institutions of learning have such exceptional facilities to offer graduate students of mining and metallurgy. Graduate work is conditioned on the satisfactory completion of the requirements for a bachelor of science degree in this University, or its equivalent in another institution.

Higher Degrees.—Students who have already covered the 147 units required for the degree of Bachelor of Science in the College of Mining may become candidates for the degree of Master of Science or that of Engineer of Mining or Metallurgy under the conditions prescribed for these degrees. Those who have not fulfilled the requirements for the degree of Bachelor of Science in the College of Mining will be expected to make good their deficiencies by taking the necessary undergraduate courses in this institution before they become candidates for the higher degrees.

METALLURGY

GRADUATE COURSES

202. Metallurgy of the Less Common Metals.	HERSAM.
210A-210B. Special Investigation in Treatment of Ores.	HERSAM.
216. Advanced Metallography.	MORLEY.

UPPER DIVISION MAJOR COURSES

102. General Metallurgy.	HERSAM.
104A. Fire Assaying.	MORLEY.
104B. Advanced Assaying.	MORLEY.
106. Metallurgy of Iron and Steel.	HERSAM.
108A. Ore Dressing—Lectures.	HERSAM.
108B. Metallurgy of Gold and Silver.	HERSAM.
110A. Ore Dressing—Laboratory.	HERSAM.
110B. Metallurgical Laboratory.	HERSAM.
112. Metallurgy of Lead and Copper.	MORLEY.
116. Metallography.	MORLEY.
118A–118B. Undergraduate Thesis Course.	

MINING**GRADUATE COURSES**

201. Research in Mining Practice.	WEEKS.
203A–203B. Seminar in Mining.	PROBERT.
205. Mine Valuation.	PROBERT.
299. Thesis for the Master's Degree.	

UPPER DIVISION COURSES

101. Mine Development and Mining Methods.	PROBERT.
103. General Mining.	PROBERT.
105. Mine Equipment.	WEEKS.
107. Economics of Mining.	PROBERT.
109. Mine Cost-Accounting.	UREN.
111A. Mining Machinery: Compressed Air.	WEEKS.
111B. Mining Machinery and Supplies.	WEEKS.
117A–117B. Undergraduate Thesis Course.	

PETROLEUM ENGINEERING

115. Oil-Field Development.	UREN.
119. Petroleum Production Methods.	UREN.
123. Petroleum Engineering Laboratory.	UREN.
125. Petroleum Cost-Accounting.	UREN.
127. Petroleum Utilization.	UREN.
129. Production and Utilization of Natural Gas.	UREN.
131A–131B. Undergraduate Thesis Course.	

MUSIC

Professor: E. G. STRICKLEN.

Choragus: P. STEINDORFF.

Instructor: VIRGINIA GRAHAM.

Preliminary Requirements.—That knowledge and experience indicated by an ability to pass with high grades the final examinations in courses 104A-104B, 101A-101B or 102A-102B, 111A-111B, and proficiency in the technique of some instrument, preferably the pianoforte.

GRADUATE COURSES

200A-200B. Musical Criticism.

201. Orchestration.

UPPER DIVISION MAJOR COURSES

101A-101B. Preliminary Studies in Repertoire. STEINDORFF.

102A-102B. Pianoforte Ensemble Practice. STEINDORFF.

104A-104B. Contrapuntal Studies. (Third-year Course.) STRICKLEN.

105A-105B. Modern Harmonic and Contrapuntal Usages. (Fourth-year Course.)

106. Special Work. The department holds itself ready to assist students in advanced work in theory or composition.

109A-109B. The Performance of Musical Works: Conducting. STEINDORFF.

300A-300B. The Teaching of Music. The Staff.

111A-111B. Critical Study of Composition. STRICKLEN.

ORIENTAL LANGUAGES

Professors: E. T. WILLIAMS, J. FRYER, Emeritus.

Instructors: Y. S. KUNO, S. C. KIANG.

Facilities.—The department, by the generosity of Mr. Kiang, is provided with an excellent collection of Chinese works, chiefly in the fields of history, biography and philosophy. This collection, it is hoped, will be considerably enlarged in the coming year. There is a more limited collection of Japanese works, but a very valuable one for research in political conditions since 1853. This collection includes the life of the last Shogun in twenty-three volumes. The University Library has a large collection of works in European languages which deal with the Far East.

Besides the equipment mentioned above the department has access to the Chinese library of Professor Williams and that of Professor Fryer, as well as to a large and valuable collection of Japanese works belonging to Mr. Kuno, very completely covering the history of Japan, its social institutions and its philosophy.

Research.—In the past the work of the department, in so far as the Graduate Division is concerned, has been very largely devoted to assisting the researches of those who, under the direction of other departments, have been investigating questions relating to the Far East, especially in the fields of political science and economics.

In addition to this, however, a limited amount of research work has been conducted under the direct guidance of the department. The principal theses so prepared in recent years are the following: history and diplomacy leading to the annexation of Korea by Japan; the political and intellectual relations of China, Japan, and Korea; Christianity and foreign commerce in Japan from 1549 to 1640; the world conception of the Chinese: their cosmological, astronomical and physico-philosophical speculations.

Higher Degrees.—Candidates for higher degrees are required to present as a preliminary condition not less than 12 units from the department's lower division courses and an equal number from those of the upper division.

The attention of those who are seeking a high school teacher's recommendation is called to the courses offered in Far Eastern History and in the Social, Economic and Political Conditions of China and Japan. The department believes that the high school teachers on the Pacific Coast

ought not to be unacquainted with the history of eastern Asia or with present conditions there.

Master's Degree.—Candidates for the master's degree must have taken the lecture courses of the department and in addition must have a reading knowledge of either French or German.

Degree of Doctor of Philosophy.—In addition to the requirements already mentioned, the candidate for the degree of Doctor of Philosophy will be expected to possess a good working knowledge of either the Chinese or the Japanese language and present an acceptable thesis based upon original research in Chinese or Japanese. Oriental students must have a working knowledge of two languages other than their own.

GRADUATE COURSES

- 201A-201B. Research in Chinese History and Philosophy; Study of present conditions, political and economic, in the Far East.
203A-203B. Research and Critical Study of Modern Topics and of Books on Japan.

UPPER DIVISION MAJOR COURSES

- 105A-105B. Elementary Study of the Classics and the Written Language of Japan. KUNO.
108A-108B. Advanced Chinese Conversation. KIANG.
109A-109B. History of Japanese Political Development and Civilization. KUNO.
112A-112B. Chinese Classics (Chinese text.) WILLIAMS.
129A-129B. Chinese History. WILLIAMS.

PALAEONTOLOGY

Professors: J. C. MERRIAM, B. L. CLARK.

Facilities.—The field for palaeontologic study and research on the Pacific Coast, and especially in the territory immediately accessible from the University, is a most unusual one, as a considerable part of the geologic column is available for study in the region easily reached from the University. Within a radius of twenty-five miles from Berkeley, Coast Range formations ranging from early Cretaceous to Pleistocene are represented by splendid exposures containing abundant fossil remains. This section is the basis for work leading to advanced study and research. The research work in palaeontology has been based largely on a study of materials immediately at hand. Our knowledge of West Coast palaeontology is in the making, and advanced students are expected to assist in working out the solution of problems before us. Properly qualified students may take up special lines of investigation under the guidance of the instructor. Students beginning advanced study may work with the instructor or with other students engaged in research.

Research.—The collections available for study and comparison in research include a representative series of the invertebrate faunas of California, together with a large quantity of invertebrate material from horizons the position of which is not as yet clearly determined. The vertebrate collection includes the original material obtained by the University in the progress of work in the John Day region of Oregon, the Virgin Valley and Thousand Creek regions of Nevada, the Mohave and Coalinga regions of California, Potter Creek Cave, Samwel Cave, Hawver Cave, Rancho La Brea, and the Triassic limestones of northern California and western Nevada. Research on all these lines of investigations is still in progress.

Publications.—The research work accomplished by the department is represented largely in the Publications of the University of California. More than one hundred papers ranging from descriptive studies of vertebrate and invertebrate forms to description and interpretation of faunas, and including extensive work on the antiquity of man in California, are to be found in the lists of the University of California Publications.

Higher Degrees.—It is the desire of the department that candidates for higher degrees include as a portion of their schedule the carrying to completion of one or more pieces of research work embodying the results of independent thinking on the part of the student; the rounding

out of this study in such form that it becomes easily available to other investigators is also considered an important part of the work of the candidate.

Master's Degree.—Candidates for the master's degree are expected to devote at least one-half of their time to strictly graduate work during the year of study required for the degree. The thesis for the degree is not presumed to cover a subject of wide scope, but should represent the principles of work in independent investigation.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy will in most cases have as minors subjects within the field of geology, biology, anthropology, or some combination of these subjects. In addition to a thorough grounding in the principles involved in the major and minor subjects, before beginning graduate work candidates are expected to familiarize themselves with standard works in the literature of the subject. Research work for the doctor's degree ordinarily covers more than one subject. The common procedure is that the candidate completes first a small piece of research, possibly of a purely descriptive type, and later presents for his doctor's thesis a subject covering a larger field and requiring philosophic interpretation.

Graduate Courses.—The graduate work of the department is in all included in two courses designated as Palaeontology 206 and 207. All research work not included in the seminars is accredited under the head of course 207, the units of credit varying according to the amount of time required, and the special subjects varying with different individuals. The seminar is conducted in two sections, Palaeontology 206A including a presentation of research papers in invertebrate palaeontology and the discussion of fundamental topics in this field; 206B, the vertebrate seminar, consists in part of presentation and discussion of research work in vertebrate palaeontology in the department, and comprises the study of special topics as in 206A.

GRADUATE COURSES

206A. Invertebrate Palaeontology. Seminar.	MERRIAM, CLARK.
206B. Vertebrate Palaeontology. Seminar.	MERRIAM.
207. Advanced Vertebrate Palaeontology.	MERRIAM.
208. Advanced Invertebrate Palaeontology.	MERRIAM, CLARK.

UPPER DIVISION MAJOR COURSES

102. Invertebrate Palaeontology.	CLARK.
103. Invertebrate Faunas of the Pacific Coast Region.	CLARK.
104. Vertebrate Palaeontology.	MERRIAM.
105. History of Vertebrate Life in Western North America.	MERRIAM.

PATHOLOGY AND BACTERIOLOGY

Professors: F. P. GAY, G. Y. RUSK, *I. C. HALL.

Facilities.—Upper division courses required in the regular medical curriculum are open to other qualified students who fulfill the necessary preliminary training, which will enable them to profit by these courses. Such training need not of necessity require the completion of the first year in medicine. For example, work in advanced physiology and biochemistry are sufficient to admit to the courses in bacteriology, but would not be adequate as preparation for the work in histopathology and morbid anatomy. Upper division courses are also given in some aspects of bacteriology not immediately connected with the medical curriculum.

Opportunities for research are given through graduate courses as outlined in the list that follows. Suitable apparatus and material are at hand for the ordinary investigations implied in following these graduate courses. An excellent departmental library covering the fields of bacteriology and pathology is deposited in the building of the laboratory in Berkeley.

At present the work in bacteriology, as required of medical students, is given in the first semester of the year, and in Berkeley. The work in histopathology and morbid anatomy is given in the laboratory of the department in connection with the University Hospital in San Francisco during the second semester of the year. The graduate courses are open to students throughout the year.

Research.—Through the generosity of friends of the late Dr. Edith J. Claypole, a research fellowship in pathology has been established with an annual income of \$1200. Preference is given to women students who have evidenced their capacity for research in filling this fellowship. Another research assistantship is provided for the department by the University through the Medical School funds. Additional gifts for assistance and materials have been available either from the University or from outside sources each year.

The chief problems under investigation in the department during the current year are the following: experimental streptococcus empyema in rabbits, with attempts at specific therapy; a study of the toxic products of the hemolytic streptococcus; the effects of variation in hydrogen-ion concentration and chemical constitution on culture media; chemotherapy

* Absent on leave, 1919-20.

of the experimental typhoid carrier condition in animals; a classification of pathogenic staphylococci; a classification of anaerobic bacteria with methods for their isolation and study.

Publications.—During the past year publications from the department have been made on the following subjects: methods of purifying cultures of obligative anaerobes; use of gentian violet in eliminating spurious presumptive tests of *B. coli*; action of ultraviolet light on bacteria in relation to absorption by amino acids; classification of streptococci; recent aspects of streptococcus infection; dissemination and destruction of typhoid bacilli in normal and immune rabbits; mechanism of bodily resistance to disease; serum reactions in influenza.

Higher Degrees.—After suitable regard for the prerequisites, the courses in the department may be taken as fulfilling the major or minor requirements toward the degree of Master of Arts or Doctor of Philosophy. These requirements follow closely the general regulations as announced at the beginning of this publication. The subject matter of the work and thesis required for these degrees will ordinarily vary with the preparation of the student during the preceding two years and suggestions for work will be given by the department, although it is not desired to prescribe any set curriculum.

GRADUATE COURSES

201. Research in Problems of Bacteriology, Infection and Immunity. **GAY.**
Given at Berkeley.
202. Research in Neuropathology. **RUSK.**
Given at University Hospital, San Francisco.
203. Advanced Morbid Anatomy and Histopathology. **RUSK and Assistants.**
Given at University Hospital, San Francisco.
204. Experimental Pathology. **RUSK and Assistants.**

UPPER DIVISION MAJOR COURSES

101. Medical Bacteriology, Protozoology and Immunology.
GAY, BARNES, Miss GAY, and Assistants.
102. Advanced Bacteriology. **The Staff.**
- *103. Anaerobic Bacteriology. **HALL.**
104. General Pathology, Morbid Anatomy, and Histopathology.
Given at University Hospital, San Francisco. **RUSK, ROSSEN, TATTSIE.**
105. Clinical and Pathological Conferences. **RUSK.**
Given at University Hospital, San Francisco.

* Not to be given, 1919-20.

PHILOSOPHY AND PSYCHOLOGY

Professors: C. H. RIEBER, G. M. STRATTON, G. P. ADAMS, W. BROWN, C. I. LEWIS, J. LOEWENBERG.

Instructors: OLGA L. BRIDGMAN, E. C. TOLMAN.

Facilities.—Instruction in all courses in philosophy, other than psychology, is given in Wheeler Hall and in the Library. The University Library is well equipped for carrying on investigations in all branches of philosophical studies. In addition to the general university collection, the Howison library, which is housed in one of the philosophy seminar rooms, forms the nucleus of a departmental library.

The psychological laboratory has a building for its special use. Besides a full equipment for class instruction and for demonstrations in connection with lectures, the laboratory is provided with all the printed forms and other materials which are in general use in conducting mental tests, and with a large number of special instruments for experiments in the principal lines of psychological investigation. There is also an ample collection of such auxiliary instruments as are most frequently required in setting up special apparatus for research, and there is a shop equipped for carpenter work. In addition to the main laboratory room, there are several quiet rooms suitable for research purposes, and a large dark-and-silent room. All the rooms are connected by switchboard with high and low potential electric current and are served with alternating lighting current and with gas.

Publications.—The department maintains two series of publications, in philosophy and psychology respectively, embodying the results of research. Reports of other studies by members of the department and by students can be found in the technical journals of philosophy and psychology.

Preliminary Requirements.—For full graduate standing in the department it is expected that students whose major work is to be in logic, ethics, the history of philosophy, aesthetics, or the theory of knowledge and metaphysics shall have taken the following courses or their equivalents: at least 12 units, chosen from lower division courses 1A-1B, 2A, 3A-3B, 4A-4B, and a minimum of 18 units of major courses, taken in the upper division. It is important that all students whose major work is to be in philosophy, exclusive of psychology, shall possess a knowledge of the entire history of philosophy, and shall have a first hand acquaint-

ance with the philosophical classics. Graduate students whose major work is to be in psychology are expected to have completed a course in general psychology and, as a rule, one or more courses in advanced psychology. Eighteen units of major work in the department are generally required for admission to full graduate standing, but after consultation with the officers in charge specially trained persons whose preparation has been in some allied field may be admitted.

Master's Degree.—Graduate students who are candidates for the master's degree with philosophy as their major subject will ordinarily pursue their work for the degree and write a thesis in connection with one or more graduate courses in which the student is enrolled. It is expected that the thesis for the master's degree will embody the results of study and investigation of a technical nature, by the student, of some particular topic in the general field of philosophy or psychology. Such discussions may be mainly theoretical or may be based on experimental investigation and research in the psychological laboratory, the schools, clinics, or elsewhere.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy in the department of philosophy may pursue their work in the fields of logic, ethics, aesthetics, history of philosophy, social philosophy, theory of knowledge and metaphysics, and theoretical, experimental, or applied psychology. Candidates in any of these special topics will be expected to pass a preliminary examination covering the general field of philosophy or psychology. The preliminary examination must be passed at least one year before the candidate shall take his degree, and shall consist of separate written examinations in logic, general psychology, ethics, and the history of philosophy, and some one period or thinker in which the student has made a more intensive study, except that in the case of certain candidates in psychology an examination in an allied field may be substituted for one or more of the above subjects.

GRADUATE COURSES

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| 209A-209B. Seminar in the Methodology of Science, alternating with Seminar in the Philosophy of Social Relations. | LEWIS. |
| 210A-210B. Seminar in the History of Philosophy. | LOEWENBERG. |
| 211A-211B. Seminar in Logic. | RIEBER. |
| 212A-212B. Seminar in Ethics. | ADAMS. |
| 213A-213B. Psychological Research. | The Staff in Psychology. |

PHILOSOPHY**UPPER DIVISION MAJOR COURSES**

103c-103d. Philosophy of the Nineteenth Century.	LOEWENBERG and LEWIS.
104A-104B. Ethics.	ADAMS.
105. The Kantian Philosophy.	LEWIS.
109. Symbolic Logic.	LEWIS.
111. Fundamental Theoretical Problems.	LOEWENBERG.
112A-112B. Religion.	ADAMS.
114. Theory of Knowledge.	RIEBER.
115. Logic of Science.	RIEBER.
116. Plato and Aristotle.	_____
123. German Idealism After Kant.	_____
135. Contemporary Tendencies in Philosophy.	_____
136. Aesthetics.	_____
139. Royce's Philosophy of the Community.	LOEWENBERG.
146. Literary Expressions of Philosophic Problems	LOEWENBERG.
160. Philosophy of the State.	ADAMS.

PSYCHOLOGY**UPPER DIVISION MAJOR COURSES**

102B. Applied Psychology.	STRATTON.
106. Introduction to Psychological Experiment.	TOLMAN.
107. Introduction to Psychological Measurement.	TOLMAN, BROWN.
110. Educational Psychology.	BROWN.
133. Advanced General Psychology.	TOLMAN.
140A-140B. Psychological Experiments: Advanced.	BROWN.
142. Abnormal Psychology: Elementary.	BRIDGMAN.
143. Abnormal Psychology: Advanced.	BRIDGMAN.
145A-145B. Social Psychology.	STRATTON.
150. Animal Psychology.	TOLMAN.
151A-151B. Experiments in Animal Behavior.	TOLMAN.

PHYSICAL EDUCATION FOR MEN

Professor: F. KLEEGER, Director.

Instructors: E. H. WIGHT, C. M. PRICE, C. S. BOTSFORD.

Facilities.—The department provides for the employment of a number of student assistants in the different branches of athletics and gives preference to men doing graduate work. The work of these men, under the guidance of instructors, is experimental as to methods of conducting work in various activities.

The facilities for research from the standpoint of funds, library, buildings, fields, and general equipment are increasing rapidly, the department bidding fair to be one of the best equipped in the country within the next two years, as a result of recent appropriations for new athletic fields and gymnasias.

Research.—Research has recently been largely concerned with the problems of popularizing physical education through the agency of physical efficiency tests, combined with the adaptation of various sports for the purposes of physical education. Data has also been collected during the past four years, which, when compiled, will afford much information on the subjects of heredity and eugenics.

A new method of physical examination, involving the scoring of men's physical development, conformation, and health, as in stock judging, together with an original scheme of anthropometric photography, has been in the process of experimentation.

Statistical researches are under way with reference to the control of infectious skin diseases, such as are frequently found in gymnasias and swimming pools, and also with reference to the relative values and specific purposes of different types of athletic activity, such as inter-collegiate athletics, intra-mural athletics, developmental athletics, and recreational athletics.

Higher Degrees.—It has been the policy of this department to recommend the taking of higher degrees in other departments, since the department has not found it possible to develop adequate graduate courses to warrant such degrees in physical education. Plans are under way for the development of facilities, and the increasing of the teaching force will undoubtedly make possible the accomplishment of higher degrees in this department by the end of the year 1921.

Preliminary Requirements for Higher Degrees.—Students who contemplate undertaking work for higher degrees in the department of physi-

cal education for men should advise with the chairman of the department as to the distribution and schemes of work in the junior and senior years.

High School Teachers' Recommendation.—See “Announcement of the School of Education.”

UPPER DIVISION MAJOR COURSES

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| 100A. Physiology and Hygiene of Exercise. | KLEEBCRGER. |
| Prerequisite: Physiology 1 or 107. | |
| 106A. Athletic Supervision. | COZENS, WIGHT. |
| 107A. Organization and Management of Playgrounds. | _____ |
| 107B. Practical Conduct of Playground Activities. | _____ |
| 300A-300B. Practice Teaching. | KLEEBCRGER and Staff. |
| 111A-111B. Advanced Gymnastics. | KLEEBCRGER. |
| Prerequisite: Course 1A-1B or the consent of the instructor. | |
| 112A-112B. Advanced Boxing, Wrestling or Fencing. | FREED and ANDREWS. |

PHYSICAL EDUCATION FOR WOMEN

Professors: RUTH ELLIOTT, SARAH R. DAVIS.

Instructors: *EDNA LEE ROOF, MARY L. WOODFORD, FLORENCE EISENHARDT,
CAROLINE COLEMAN, JOSEPHINE GUION.

Facilities.—There are, at present, no funds appropriated for research in this department, but in spite of this, opportunities are offered for graduate study and research. Honor-students will be given special opportunity for research in this department in connection with allied departments such as anatomy, education, hygiene, physiology, psychology, and zoology. In addition they will be allowed opportunities for specialization in educational gymnastics in connection with public school teaching, in corrective gymnastics at the orthopedic clinic of the University of California Medical School, and in athletic supervision in connection with department instruction.

High School Teacher's Recommendation.—See Announcement of the School of Education, 1919-20.

GRADUATE COURSES

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| 250. Seminar. II. | The Staff. |
| Topic for 1919-20: Current Tendencies in Physical Education. | |
| Prerequisite: course 175. | |
| 300. Studies in Gymnastic Teaching. | ELLIOTT, WOODFORD, EISENHARDT. |
| Prerequisite: course 165A-165B. Recommended in connection with Education 320. | |

UPPER DIVISION MAJOR COURSES

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| 151. Kinesiology. | DAVIS. |
| Prerequisite: Anatomy 102. | |
| 152. Theory and Practice of Corrective Gymnastics. | DAVIS. |
| Prerequisite: course 151. | |
| 153A-153B. Practice of Corrective Gymnastics. | DAVIS. |
| Prerequisite: course 152. | |
| 155. Theory and Practice of Massage. | DAVIS. |
| Prerequisite: course 151. | |

* Absent on leave, 1919-20.

- 160A-160B.** Theory and Practice of Teaching Folk Dancing. EISENHARDT.
Prerequisite: course 60A-60B.
- 161A-161B.** Theory and Practice of Teaching Classic Dancing. EISENHARDT.
Prerequisite: course 61A-61B.
- 162.** Theory and Practice of Rhythmic Plays, Games, and Story-plays. ELLIOTT, EISENHARDT.
- 165A-165B.** Theory and Practice of Gymnastic Teaching. ELLIOTT.
Prerequisite: courses 65A-65B, 151, and consent of the instructor.
- 170.** Theories of Play, School and Playground Games. ———
- 171A-171B.** Theory and Practice of Athletic Supervision. The Staff.
Prerequisite: a working knowledge of at least two team games.
- 175.** Theory and History of Physical Education and Recreation. ELLIOTT.
Prerequisite: course 165A-165B.

PHYSICS

Professors: E. P. LEWIS, F. SLATE, Emeritus; E. E. HALL, R. S. MINOR, W. J. RAYMOND, L. T. JONES.

Instructors: R. B. ABBOTT, R. T. BIRGE, W. H. WILLIAMS, E. DERSHEM, W. C. POMEROY.

Facilities.—South Hall, which is devoted to the use of the department of physics, is a substantial brick building, with three stories and a basement. A small annex is occupied by a workshop and store-rooms. The greater part of the building is devoted to lecture rooms and laboratories for undergraduate instruction, but some small rooms in the basement and on the third floor are reserved for research purposes. The department is well equipped with apparatus for research in the fields of optics, spectroscopy, electricity, including discharge through gases, high frequency currents, and electric waves, and radiation and heat measurements.

Three competent mechanics are employed in the shop, which is well equipped for the construction of apparatus after original designs for research purposes.

Library.—About 1600 volumes of standard works and special treatises on physics, exclusive of periodicals, are contained in the University Library. Duplicates of many of the books most in use are to be found in the department library, located in South Hall. All periodicals of interest to students of physics are to be found in the University Library, the sets being complete in nearly all cases. Duplicate copies of some of the most valuable journals are kept in the department library. Complete sets of the transactions and proceedings of the leading scientific academies and societies of the world are filed in the University Library.

Fellowships and Assistantships.—The income of the Whiting bequest, amounting to about \$1500 per annum, is available for research and fellowships. Usually two fellows are appointed each year. A number of assistantships are likewise open to graduate students.

Publications.—The research activities of the department are indicated by the following list of publications during the past two years. In cases where the work is that of a student, this fact is indicated by his name, followed by that of the instructor directing his work. The coronal and flash spectra (Lewis); the polarization of the corona (Lewis); variations of the photoelectric current due to heating and the occlusion and emission of gases (Welo-Lewis); law of motion of a droplet moving with variable

velocity in air (Abbott-Lewis); reflectivity in extreme ultra-violet (Hardy-Lewis); study of harmonic motion affected by resistance proportional to the square of speed (Van Zandt-Raymond); a synthesizer for the combination of damped harmonic curves (Raymond); the variation of the magnetic declination at Berkeley during the solar eclipse of June 8, 1918 (Raymond); the mercury-arc pump; the dependence of its rate of exhaustion on current (Jones with Russell); laboratory uses of thermos bottles (Abbott); the value of the Rydberg constant (Birge); the dispersion of air and the reduction of wave-lengths to vacuum (Birge); the mathematical structure of band series (II) (Birge); the most probable value of the Planck constant " h " (Birge).

Completed, but not yet published: the spectra of gases moving through a discharge tube (Baer-Lewis); the variations in the persistence of vision for different portions of the retina and for different colors (Hardy-Hall); the transmission of optical glasses for ultra-violet light (Minor); character of sound waves emitted from a moving source (Cook-Abbott).

Researches in Progress.—The effect of temperature upon atmospheric ionization (Kunsman-Lewis); spectra in extreme ultra-violet (Aster-Lewis); the spectra of low potential discharges (Lewis); electrical and thermal conductivity at the fusion point (Greves-Hall); fused salts as electrolytes in primary batteries (Taylor-Hall); vibrations in buildings (Hall); a mechanism for illustrating the characteristics of alternating currents (Raymond); the velocity of sound as a function of the velocity of the source (Jones); resistance of batteries (Abbott); vacuum tubes for radio service (Abbott); velocity of sound waves emitted from a moving source (Stockton-Abbott); use of the method of least squares in laboratory work (Birge); X-ray spectra and the structure of the atom (Birge); the use of a photoelectric cell as a photometer (Cummings-Dershem); the spectra of X-rays (Der sham).

Preliminary Requirements.—Students are admitted to graduate standing in physics by satisfying the usual requirements as to undergraduate major courses. No additional conditions have been formulated by this department, such questions as arise in these matters being settled individually. It can be said, however, that preparation for graduate work will include normally: (1) an elementary course amounting to 12 units, and embracing lecture, recitations and laboratory work; (2) a 6-unit course in analytic mechanics; and (3) other major courses selected by the student, in which an adequate proportion of laboratory work should be included. Working knowledge in the differential and integral calculus is needed, if free choice among major courses is to be exercised, and early acquirement of power to read French and German is almost indispensable.

Plans for graduate study are usually arranged in conference with the individual students, because the necessary preparation in physics, or in special branches of it, and in mathematics, depends so largely upon the topic chosen. Therefore persons proposing to undertake work in special lines should consult as soon as practicable with the instructors who are most nearly concerned.

Higher Degrees and Teachers' Recommendations.—The department has no special requirements, but all candidates should submit their plans for approval to the chairman of the department.

GRADUATE COURSES

206A. Harmonic Motion.	RAYMOND.
206B. Electric Waves and Oscillations.	RAYMOND.
211-211c. Spectroscopy.	LEWIS, BIRGE.
212. Thermodynamics.	HALL.
213. The Kinetic Theory of Matter.	HALL.
216. Special Advanced Study and Research.	The Staff.
217. Electron Theory.	WILLIAMS.
218. Graduate Laboratory Work.	The Staff.
219A-219B. Special Graduate Study—Seminars.	The Staff.
299. Thesis for the Master's Degree.	
300. Teachers' Course.	MINOR.

UPPER DIVISION MAJOR COURSES

104A-104B. Physical Laws in Terms of Vector Analysis.	WILLIAMS.
105A-105B. Analytic Mechanics.	RAYMOND.
107A-107B. Electrical Measurements.	RAYMOND.
108. Physical Optics.	MINOR.
108A. Polarized Light.	MINOR.
111A-111B. Electric Discharges through Gases.	LEWIS.
112B. High Temperature Measurements.	HALL.
118. Special Undergraduate Work.	The Staff.
119A-119B. Special Undergraduate Study.	The Staff.

PHYSIOLOGY

Professors: R. GESELL, S. S. MAXWELL, T. C. BURNETT.

Instructors: P. WULZEN, L. M. MOORE, J. A. LARSON.

Facilities.—About one-half of the Rudolph Spreckels Physiology Laboratory is devoted to research and instruction in physiology. The equipment permits investigation in the various fields of animal physiology. In the same building convenient to the laboratories is an excellent joint library of the departments of physiology and biochemistry. In addition to the six professors and instructors there are three assistantships which are open from time to time to graduate students of promise. Such positions offer adequate time for serious investigation. Fellowships in the form of internship in the fifth year of medicine, with salary, are open to medical students for the period of one year. These positions virtually give free time for research for the entire year. They are open to the medical student in either his third or fifth year.

Research.—Every effort is being made to encourage investigation by additions to the research equipment and by securing a large amount of free time for research for the members of the staff. This arrangement permits an intimate contact between the staff and the graduates actively engaged in research. Various problems are at present under investigation: factors controlling the volume-flow of blood; the dependence of sub-maxillary secretion upon the volume-flow of blood; electrical deflection of the sub-maxillary gland; effects of back pressure in the salivary duct upon subsequent secretion; the physiology of the labyrinth; the nature of the action of catalase; oesophageal reactions of the planarian; heat regulation; the effects of pituitary feeding upon the growth of rats with deficient thyroid.

Preliminary Requirements for Higher Degrees.—Pending a rearrangement of the courses of the department no definite statement can be made. Students with the general scientific training necessary for the study of physiology who have completed an advanced laboratory course meeting the satisfaction of the department are eligible to the candidacy for higher degrees.

GRADUATE COURSES

212A-212B. Research.

The Staff.

214A-214B. Journal Club and Seminar.

The Staff.

299A-299B. Thesis for the Master's Degree.

UPPER DIVISION MAJOR COURSES

(Announcements will be made later.)

POLITICAL SCIENCE

Professors: D. P. BARBOWS, President of the University; T. H. REED, *E.
ELLIOTT, E. DAWSON.

Lecturers: E. M. SALT; C. E. MARTIN.

Instructor: J. R. DOUGLAS.

Facilities.—The University Library is equipped for the study of the government and politics of the United States, of Spanish America, of the United Kingdom, France, and Italy. Its collections are being constantly added to, and together with the law library in Boalt Hall, offers opportunities for very thorough research into the government and the public law particularly of the English-speaking countries, and of France and Italy. Materials for the study of the Far East and the Pacific, as well as eastern Europe and Germany, are constantly being increased. The Bancroft Library contains extensive materials for the study of the institutions and politics of Spanish America. The Bureau of Public Administration and the Bureau of International Relations, both forming part of the department and conveniently situated in the Library, provide opportunities for reference and research together with expert assistance and guidance by their secretaries, to the students who wish to make use of these bureaus either for casual reference or for systematic research. The collections of materials contained in the bureaus are constantly being extended.

The scope of instruction in this department includes the government of modern American and European states, their administration, internal politics, and history of political institutions; the government of American dependencies; state government and administration in the United States; local and municipal government in the United States and in Europe; comparative public law; political theories and their history; international relations and diplomacy; the teaching of civics in high schools.

Research.—Higher degrees granted in the last few years were based on theses dealing with municipal government, government of the Philippines, foreign relations of China and Japan and world organization. Research work now being pursued by graduate students covers the fields of state administration, international relations, theory and practice of martial law, legal organization of the care for child welfare, history of political theories in the United States.

* Absent on leave, 1919-20.

Higher Degrees.—The general rules of the Graduate Division are followed, with the following additions:

Preliminary Requirements for Higher Degrees.—No courses are prescribed as prerequisite for entering upon candidacy for higher degrees. In general, however, the student's preparation will play an important rôle in determining the length of time which he will have to spend before obtaining the degree. Not only the candidates for the doctor's degree and the master's degree, but also the candidates for the teacher's certificate majoring in political science are required to take in the department an oral examination covering the field of political science and in particular American and comparative government and ancient and modern political theories, and therefore the better the candidate's equipment the less time will he have to spend taking courses which will prepare him in those fields. In general, jurisprudence (particularly Roman law, general jurisprudence, constitutional law, common law, international law) logic, psychology, economics (particularly public finance, history of economic theories, principles of economics, and statistics), and general and constitutional history are the fields which, in addition to political science, should be covered as far as possible by students intending to obtain the best preparation for higher degrees. The knowledge of French and some other foreign language (e.g. Spanish, Italian, Latin, German, according to the special field) is usually indispensable.

High School Teacher's Recommendation.—Candidates with a major in political science must have taken a general course descriptive of the United States' and most important European governments (such as 1A-1B), a general encyclopaedic course including a review of the history of political theories and of modern political institutions and problems (such as 6A-6B), and at least 18 units of upper division major work, including a course in American federal government, a course in American state government, a course in municipal government, a course in public administration or in municipal administration, and a course of reading and discussion of political writings. The total work taken in the department or approved by it as equivalent must be not less than 30 units. The final oral examination covers American and foreign (including state and municipal) government, political theories, and either history of political institutions, American foreign relations, or the political background and issues of the Great War.

The department grants the recommended minor in political science at its discretion to students who have distinguished themselves in a marked way in the courses which they have taken in the department.

Special Preparation for the Teaching of Civics.—During the spring and fall semesters, 1920, special upper division and graduate courses in the

teaching of civics (instruction in government) are offered by the department, in order to help improve the teaching of civics in the high schools.

Master's Degree.—Each candidate's program is considered on its merits. As a rule candidates are required to pursue a course of studies approved by the department, covering at least 20 units of graduate and upper division major work, including an acceptable thesis (2-4 units). They are required, furthermore, to pass a final oral examination covering the subject-matter of the thesis and also the fields covered in the examination of candidates for the high school teacher's recommendation.

Doctor of Philosophy.—Each candidate's course of studies is outlined in accordance with the exigencies of his case. The preliminary and final examinations cover not only the subject-matter of the thesis, but government (national and local, including state and municipal) of the United States and of European countries, international law and international relations comparative constitutional law, and political theories.

GRADUATE COURSES

201A-201B. Reading Course in Political Writings.	REED.
204A-204B. Seminar in Foreign Relations.	BARROWS.
205A-205B. Seminar in Administration.	DOUGLAS.
208A-208B. Seminar in Municipal Government.	REED.
209A-209B. Seminar in Western European Politics.	SAIT.
251. Instruction in Government (Seminar).	DAWSON.
299. Thesis for the Master's Degree.	_____

UPPER DIVISION MAJOR COURSES

101. Theory of the State.	ELLIOTT.
102. American Political Institutions.	ELLIOTT.
103. The Government of Dependencies.	BARROWS.
105. International Relations: Spanish America.	_____
106. International Relations: the Far East.	WILLIAMS.
107. History of Diplomacy.	MARTIN.
108. American Government.	DOUGLAS.
110A. The Government of Cities.	REED.
110B. Municipal Administration.	DOUGLAS.
112. State Government.	DOUGLAS.
115. The Principles of Public Administration.	DOUGLAS.
123. The Government of France.	SAIT.
124. The Government of England.	SAIT.
199A-199B. Honor Course.	The Staff.

PUBLIC HEALTH

COMMITTEE ON PUBLIC HEALTH STUDY-LISTS

Professors: R. T. LEGGE (Chairman), J. N. FORCE (Secretary), F. P. GAY, C. G. HYDE, LUCY STEBBINS, and Dr. W. E. MUSGRAVE.

Facilities.—Instruction in public health is given in part in San Francisco in the Medical School and in part in Berkeley. In San Francisco the laboratory facilities include the laboratories of the University Hospital and the Hooper Foundation for Medical Research, while clinical opportunities are offered by the material of the University Hospital Out-Patient Department and the University wards of the San Francisco Hospital.

In Berkeley the laboratory of hygiene occupies the same building with the State Hygienic Laboratory. The results of the general epidemiological investigations conducted by the State Board of Health, as well as special investigations on malaria, poliomyelitis, typhoid carriers, and rabies are at the disposal of students. Special research problems may be undertaken under the joint supervision of these laboratories. A training of great practical value to those intending to serve in municipal laboratories is thus assured. Modern health centers are maintained in Oakland, and Berkeley. The manufacture of antitoxins, vaccines, and other biological products may be observed at the Cutter Laboratory, which is situated in Berkeley.

There are numerous industrial establishments including a knitting mill, a soap factory, candy factory, fruit cannery, ink works, and a machine shop in Berkeley. The neighboring city of Oakland has a complete system of medical inspection of schools as well as several examples of the most recent development of school architecture, including out-of-door schools. Students have been invited by the Oakland School Department to conduct investigations under supervision. The conduct of milk depots and day nurseries may also be studied in Oakland.

In connection with the course in health surveys, students may visit a quarantine station, an immigration station, a station of the U. S. Public Health Service for the investigation of plague, and may observe municipal health administration in several cities in the vicinity of the University ranging in size from 50,000 inhabitants to nearly ten times that number.

The courses dealing with medical entomology and the sanitation of the milk supply are given by the divisions of entomology and veterinary science in the College of Agriculture. The division of veterinary science maintains a certified dairy which serves as a laboratory for instruction

in milk sanitation. This division also carries on experimental work in bovine tuberculosis.

The department of civil engineering offers a group of courses in sanitary engineering. A practical study of California conditions is made possible by close affiliation with the State Sanitary Engineering Laboratory.

An appreciation of the social character of public health conservation, and an insight into the statistical methods involved are important parts of the training of the sanitarian. Instruction in these subjects is conducted by the department of economics, which is in close relation with the Associated Charities of San Francisco.

COURSE IN PUBLIC HEALTH

There are three curricula in public health, designated by the letters A, B, and C. Curriculum A is intended for general students in public health; curriculum B is intended for students holding the degree of Bachelor of Science from the College of Civil Engineering; curriculum C is intended for students of medicine and may be substituted for the second half of the fourth year, and fifth, or interne year, in the Medical School, without affecting candidacy for the degree of Doctor of Medicine.

While enrolled in the Medical School, students in the Public Health course are subject to the usual fee of \$75 per half-year.

On completion of any of these curricula the degree of Graduate in Public Health (Gr.P.H.) is conferred.

With the permission of the Committee on Public Health Study-Lists, courses may be substituted for those shown in the following curricula to the extent of not more than six units in any half-year.

CURRICULUM A

A four-year course, three years in the College of Letters and Science, and one year in the Medical School.

Requirements for Admission to the Course.—Junior standing (64 units) or evidence of an equivalent preparation; a reading knowledge of French or German; Physics 2A-2B; Chemistry 1A-1B, 8 and 9; Bacteriology 1; Zoology 1A-1B.

The student is advised to avoid strict specialization in science and to devote his elective units as far as practicable to subjects of general culture.

In order to satisfy the requirements for the degree of Bachelor of Arts based on the first two years of this curriculum, the student must complete at least thirty-six units selected from the following list of courses. The thirty-six units must be distributed among the subjects as indicated.

In order to satisfy the requirement for the degree of Master of Arts in Public Health, or in order to proceed to the final year of this curriculum

which is given in the Medical School, the student must have completed twelve units chosen from the following list of courses, in addition to the thirty-six units completed for the bachelor's degree.

The curriculum for students who hold an academic bachelor's degree based in part on the curriculum of an acceptable training school for nurses, will be determined for each candidate by the Committee on Public Health Study-Lists.

Subjects	Units	Selected from: Courses	Units
Anatomy	8	Anatomy 102	8
Bacteriology	7	Bacteriology 101A	7
Biochemistry and Physiology....	4	Veterinary Science 117....	8
Human Nutrition	5	Biochemistry 101A	9
Hygiene	6	Physiology 107	4
Parasitology and Protozoology ..	5	Household Science 108....	5
Sanitary Engineering	8	Hygiene 104	8
Statistical Method and Social Economics	8	Hygiene 107	8
		Hygiene 108A-108B	6
		Entomology 126	8
		Entomology 127	2
		Zoology 110	2
		Zoology 110c	1
		Zoology 111	3
		Zoology 111o	1
		Civil Engineering 124....	8
		Civil Engineering 128....	8
		Economics 140	4
		Economics 180	8
		Economics 181	8
	86		

SECOND GRADUATE YEAR

Given in the Medical School

	Units
<i>First Half-year.</i>	
First month.—Lectures and out-patient clinics in the University of California Hospital. Such work will be arranged for each individual student in the various medical, surgical, and children's clinics	4
Second month.—Work with the Social Service Department of the University of California Medical School	4
Third month.—Work with the San Francisco Health Department. Investigation of city health problems, such as birth problems, morbidity statistics, etc. etc.	4
Fourth month.—Work with the California State Board of Health. Investigation of state health problems in connection with bureaus in Berkeley	4
	16
<i>Second Half-year.</i>	
First and second months.—Out-patient Department work and lectures in specialties	8
Third and fourth months.—Research and writing of thesis under direction of Public Health Study-Lists Committee	8

CURRICULUM B

A two-year course, one year in the College of Letters and Science and one year in the Medical School. Prerequisite: the degree B.S. conferred in the College of Civil Engineering upon students who have completed the undergraduate curriculum in sanitary engineering.

Students electing this curriculum will find it advantageous to include Physiology 107 and Anatomy 102. With the consent of the committee, these courses may be substituted for courses listed.

V (FIRST GRADUATE YEAR)

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Subjects	Units
Hygiene 107	8	Economics 181	3
Hygiene 108A	8	Entomology 126	3
Bacteriology 101A	7	Entomology 127	2
Veterinary Science 117	8	Hygiene 104	3
	<hr/>	Hygiene 108B	3
	16		<hr/>
			14

VI (SECOND GRADUATE YEAR)

Year in Medical School as listed in Curriculum A.

CURRICULUM C

A course of one and one-half years, one year in the College of Letters and Science, and one half-year in the Medical School. Prerequisite: completion of the first three and one-half years of the medical curriculum. At the end of the fifth year, the degree of M.D. in the Medical School and the degree of Gr.P.H. in the College of Letters and Science will be conferred.

In the cases of persons holding the degree of M.D. from acceptable schools, the curriculum required will be determined for each candidate by the committee on Public Health Study-Lists.

IV

Subjects	<i>Second Half-year</i>	Units
Civil Engineering 124		3
Civil Engineering 128		3
Entomology 126		3
Entomology 127		2
Hygiene 104		3
Hygiene 108B		3
Economics 181		3
		<hr/>
		20

V

<i>First Half-year</i>		<i>Second Half-year</i>	
Subjects	Units	Assignments	Units
Hygiene 107	3	San Francisco Health Dept.	4
Hygiene 108A	3	Social Service Dept.	4
Veterinary Science 117	3	State Board of Health	4
	<hr/>	Field work in Epidemiology	
	9	Research (with thesis)	4
			<hr/>
			16

PUBLIC SPEAKING

Professors: M. C. FLAHERTY, C. D. VON NEUMAYER, D. E. WATKINS.

Instructors: A. H. ALLEN, F. LUTZ.

GRADUATE COURSES

210A-210B. Practical Bibliography.

FLAHERTY.

300A-300B. Teachers' Course.

ALLEN, LUTZ.

UPPER DIVISION MAJOR COURSES

105A-105B. Masterpieces of Legal and Political Argument.

BOAS.

107A-107B. Reading and Speaking.

VON NEUMAYER, ALLEN.

109A-109B. The Cultivation of the Speaking Voice.

ALLEN.

110A-110B. Third-Year Public Speaking.

FLAHERTY.

111A-111B. Expression and Interpretation.

ALLEN.

114A-114B. Vocal Interpretation.

ALLEN.

116A-116B. Advanced Platform Training.

LUTZ.

118A-118B. Art of Acting.

VON NEUMAYER.

150A-150B. Oral Reading in connection with the teaching of
Literature.

LUTZ.

RESEARCH MEDICINE**THE GEORGE WILLIAMS HOOPER FOUNDATION FOR MEDICAL RESEARCH**

Facilities.—Facilities for work in research medicine are available during the entire year to those who have had the necessary training. The experimental work is open to students of the Medical School, graduates in Medicine, and advanced students who have had the proper training.

Candidates for elective work in the research laboratory are expected to devote at least the time equivalent to a double course in this subject.

Graduate Course in Medicine.—Opportunities are offered in the various departments to graduate students or practitioners for special work they may wish to do. The character of the work is determined by conference with the head of the department.

For more detailed information consult the annual Announcement of the Medical School.

ROMANIC LANGUAGES

Departments of French, Spanish and Italian

Professors: R. SCHEVILL, R. T. HOLBROOK, *A. J. CARNOY, R. MICHAUD, L. M. TURNER, S. G. MORLEY, J. T. CLARK, P. B. FAY, A. SOLOMON, C. BRANSBY, E. BUCETA.

Instructors: M. W. GRAHAM, W. GIRARD, L. BARNIER, E. MCQUIRE, B. CORNISH, C. B. SINGLETON, M. T. TOMASSINI.

Facilities.—Students who intend to engage in graduate study and research will find a number of courses designed to teach the history of the Romanic languages and literatures, together with specific authors and periods. The equipment of the University Library in French, Spanish and Italian has been greatly increased by purchases and valuable donations, and all the important periodicals and publications are available. The department disposes of the Paget Scholarship to a worthy student in French.

Research.—During the recent past the departments have been engaged in the study of the history and present character of the Romanic languages, of the science of language, of the literary relations between France and America; they have investigated French syntax and French drama; the works of Cervantes, Quevedo, Lope de Vega, and the Spanish drama, the modern literary movements in Spain and Spanish America; the literary relations between France and Italy, Spain and Italy, besides studies in Italian classics. The work for the coming term will be along similar lines.

Publications.—The publications of the departments have included material on Chateaubriand, French and American literature, and the French language; on Cervantes, Lope de Vega, Ruiz Alcarón, Moreto, Larra, Villoslada, Menéndez y Pelayo, et cetera, in addition to reviews and school texts. Following are titles of recent publications: *l'Amérique et la guerre* (C. G. Chinard); description of the library of French thought (C. G. Chinard); *l'exotisme américain dans l'oeuvre de Chateaubriand* (C. G. Chinard); Chateaubriand, *Les Natchez, Livres I et II* (C. G. Chinard); *la France et la guerre* (C. G. Chinard); *Pour mieux connaître la France* (C. G. Chinard); the future of Franco-American relations (C. G. Chinard); Iranian mythology (A. J. Carnoy); the past and future of Belgium (A. J. Carnoy); *l'imagination flamande dans l'Ecole symbolique française* (A. J. Carnoy); the predicating sentence (A. J. Carnoy); *Scènes et récits de la grande guerre* (R. Michaud); *mystiques et réalistes Anglo-Saxons* (R.

* Absent on leave, 1919-20.

Miehaud); the real Frenchman in the French w
lexicological evolution and conceptual progress (J
tragique chez les Grecs et dans Shakespeare (L. I
France, England, and European democracy, by Ch
ner); the farce of Patelin, first translation in
edition (R. T. Holbrook); edition of Balzac's G
en Flandre (R. T. Holbrook); portraits of Dante
sur Pathelin (R. T. Holbrook; Living French, I
brook); Liberty French (R. T. Holbrook; review
Handbook of Phonetics (P. B. Fay); review: *Living*
the use of *tu* and *vous* in Molière's plays (P. B.
talisme considéré essentiellement dans sa définiti
çaises (W. Girard); du transcendantalisme considé
(W. Girard); Cervantes (R. Schevill); the v
McGuire); Spanish dramatic versification of th
Morley); Fran. Navarro Villoslada (B. Cornish).

Higher Degrees.—The courses offered are design
the degrees of M.A. and Ph.D. in Romanic languag
intended also to supplement work done by studen
in other departments. The student must consult
department with regard to his program, since their
advice are needed in fulfillment of all requireme
familiarize himself with the specific statements b
the prerequisites which form the basis of all gr

Preliminary Requirements.—Students who spe
guages should have, as a foundation, a knowle
should be familiar with at least two Romanic
knowledge of German is indispensable. Other
the special branches pursued. The completion o
in one of the Romanic languages including its
the candidate to strictly graduate courses. Durin
years related studies in English and history sho
program. It will help the student to have comp
year all routine courses in reading, composition
that the last two years, leading to the B.A., may
of advanced syntax, style, the science of langua
movements, together with the history of Roman

High School Teacher's Recommendation.—Cand
recommendation in one of the Romanic languages
ments of the School of Education; those who d
minor must have passed with credit, as a min
those who major in a Romanic language, a minimum
division courses in that language will be required
for the certificate is given only for proficiency in

and in the case of those who major in these departments, a special oral and written examination will be required. All candidates for the teacher's recommendation must have a reading knowledge of Latin, and of at least two Romanic languages; German is also recommended. The study of history, especially that of France, Spain and Italy, should be begun in the freshman year. Those who specialize in Spanish should include the history of Spanish America.

The Master's Degree.—Candidates for the M.A. must pass with credit the following examinations:

1. Original theme on an assigned subject.
2. The history of the Romanic languages and their relation to Latin.
3. The chief periods of the literature in which the candidate wishes to specialize.

Of the required 20 semester units 8 (including a thesis which may count from two to four units) must be of strictly graduate work. Advancement to candidacy for the master's degree is recommended by the department only after one half-year of graduate work, and after the student has passed the examinations listed above.

Doctor of Philosophy.—Candidates for the degree of Doctor of Philosophy must have a good reading knowledge of Latin, of two Romanic languages, of German, and a solid historical foundation. All graduate students who are candidates for a higher degree are required to attend the Romanic language seminar (one hour fortnightly) in which the most recent publications dealing with the Romanic languages and literatures are reviewed by the members of the departments of French, Italian, and Spanish.

FRENCH

GRADUATE COURSES

201A-201B. Sixteenth-century Writers.	HOLBROOK.
229A-229B. Special Study.	MICHAUD.
231A-231B. Pathelin and Villon.	HOLBROOK.
250A-250B. The Modern French Short Story.	TURNER.
229A-229B. Thesis for the Master's Degree.	

UPPER DIVISION MAJOR COURSES

101A-101B. Grammar and Conversation.	TURNER, CLARK, BARNIER, ———
103A-103B. Modern French.	FAY, SOLOMON, SINGLETON, GIRARD.
105A-105B. France in French Literature from Sedan to the Second Battle of the Marne, 1870-1918—Lectures in French.	MICHAUD.
107A-107B. French Comedies as Documents of Spoken French, from Molière to Scribe.	HOLBROOK.
108A-108B. French Lyrics: (a) the Romanic Poets; (b) from the Parnassians to our time.	MICHAUD.

112A-112B. The Nineteenth Century.	TURNER.
120A-120B. Corneille, Racine, and Molière.	FAY.
129A-129B. Special Study.	The Staff.
130A-130B. Grammar, Composition and Conversation.	FAY.
130C-130D. Studies in French Style.	_____
132A-132B. General Introduction to Romanic Philology.	CLARK.
136A-136B. History and Literature.	JORALEMON.
300A-300B. Teachers' Course.	_____

SPANISH

GRADUATE COURSES

201A-201B. Literary Investigation.	BUCETA.
203A-203B. Cervantes.	SCHEVILL.
205A-205B. Masterpieces of the Golden Age.	SCHEVILL.
208A-208B. The Spanish Ballad.	MORLEY.
229A-229B. Special Advanced Study.	SCHEVILL and the Staff.
299A-299B. Thesis for the Master's Degree.	The Staff.

UPPER DIVISION MAJOR COURSES

101A-102B. Conversation and Composition.	McGUIRE, BUCETA.
103A-103B. The Nineteenth Century.	MORLEY.
105A-105B. The Modern Drama.	SCHEVILL.
107A-107B. Survey of Spanish Literature to 1700.	SCHEVILL.
108A-108B. Spanish National Novel.	BUCETA.
109A-109B. Drama of the Golden Age.	MORLEY.
120A-120B. Commercial Spanish.	_____
129A-129B. Special Study.	SCHEVILL.
136A-136B. History and Literature.	JORALEMON.
300A-300B. Teachers' Course.	_____

ITALIAN

103A-103B. Modern Italian.	_____
107A-107B. Survey of Italian Literature.	_____
201A-201B. Dante, Petrarch and Boccaccio.	_____
(For all students in Romanic languages.)	

Romanic Seminar.—A review of the most recent books bearing on the Romanic languages and literatures. The Staff, one hour fortnightly.

SANSKRIT

Professor: A. W. RYDER.

UPPER DIVISION MAJOR COURSES

101A-101B. Elementary Sanskrit.	RYDER.
102A-102B. Second-Year Sanskrit.	RYDER.

SEMITIC LANGUAGES

Professor: *W. POPPER.

Lecturers: H. H. POWELL, M. A. MEYER.

Courses in French or German are recommended as preparation for major work in this department.

Facilities.—The Semitic section of the University Library contains practically all of the works requisite for the pursuit of advanced Semitic studies. The Biblical and general Hebrew collections are largest; the Greenbaum, Louis Sloss, Elkan Cohn, and Jacob Voorsanger (Deinard) collections alone contain over 3000 titles, and include such valuable examples as the editio princeps of the Talmud Babli, of Alfasi, of the Kuzari, of the Mishne Tora, and of the Miklol; and in the case of several other important Rabbinical works two or more editions of each are to be found. The Arabic section of the library also is now fairly representative. The University Library is a subscriber to all the important Semitic periodicals and possesses complete sets of back numbers. For manuscript research work it has been found practicable to have photographic reproductions made in European libraries.

While most students of Semitics in America are primarily interested in theology, it should be noted that there is a large body of Semitic literature, Arabic and Hebrew, that makes its appeal to other students as well.

Publications.—The department edits the University of California Publications in Semitic Philology.

Preliminary Requirements.—For full graduate standing in the department a good reading knowledge of at least one Semitic dialect is essential.

Doctor of Philosophy.—Owing to the nature of the work, candidates for the degree of Doctor of Philosophy generally choose, besides the major, one minor in the Semitic department, and pursue their graduate work for a minimum of three years. As a second minor, courses in comparative philology or literature, in one of the classical languages, in philosophy, sociology, education, history, or anthropology are recommended; the choice should depend upon the candidate's future profession.

GRADUATE COURSE

206A-206B. Advanced Hebrew.

POWELL.

UPPER DIVISION MAJOR COURSES

104A-104B. Second-Year Hebrew.

POWELL.

107A-107B. Mishnaic Hebrew.

MEYER.

111A-111B. Biblical Aramaic; or Syriac.

POWELL.

* Absent on leave, 1919-20.

SLAVIC LANGUAGES

Professor: G. R. NOYES.

Instructors: A. S. KAUN, M. KRUNICH.

Facilities.—In the department of Slavic languages instruction is offered in Russian, Polish, Bohemian, Serbo-Croatian, and Old Church Slavic. Lecture courses, requiring no knowledge of any foreign language, are offered on the literatures of the Slavic countries and on other Slavic topics. The University Library offers ample material for the advanced study of Russian literature and philology, and for the comparative study of the Slavic languages. It gives some opportunity, though much less adequate, for the study of the other Slavic literatures.

Publications.—The principal publications of the department are the work on "Tolstoy" (1918) by Professor Noyes; the interpretation of the Serbian spirit during the European War in "Serbia Crucified" (1918), by Lieutenant Krunich; the translation of the "Pan Tadeusz" of Mickiewicz (1917), by Professor Noyes; and the translation of "Plays by Alexander Ostrovsky" (1917), by students of the department, edited by Professor Noyes.

High School Teacher's Recommendation.—A candidate for the recommendation in Slavic languages as a major must have completed, with an average grade of "2," at least twenty-four units of major work in Slavic subjects, of which at least twelve must be in one Slavic language. Courses in Slavic history, offered by the department of history, will be accepted as part of the twenty-four units. Candidates for the minor recommendation must have completed with an average grade of "2," at least twelve units of major work in one Slavic language.

Higher Degrees.—Candidates for higher degrees must have completed at least twelve units of work in one Slavic language. Work in the lecture courses offered by the department, and in Slavic history, is recommended, but not required.

Master's Degree.—Candidates for the master's degree must show a general knowledge of the history of one Slavic literature, and must make a special study of one Slavic author or literary type.

Doctor of Philosophy.—Candidates for the doctor's degree with Slavic languages as a major must do work in at least three Slavic languages, of which one must be Old Church Slavic. Aside from the thesis, a detailed knowledge of the history of one Slavic literature is required, and an acquaintance with the comparative grammar of the Slavic languages.

GRADUATE COURSES

224. Old Church Slavic.	NOYES.
225. Historical Russian Grammar.	NOYES.
298. Individual Work.	NOYES.
299. Thesis for the Master's Degree.	NOYES.

UPPER DIVISION MAJOR COURSES

101A-101B, 102A-102B, 103A-103B, 104A-104B, 118B. Graded courses in the Russian language.	NOYES and KAUN.
106A-106B, 107A-107B, 108A-108B. Graded courses in the Polish language.	NOYES.
110A-110B, 111A-111B, 112A-112B. Graded courses in the Serbo- Croatian language.	KRUNICH.
114A-114B, 115A-115B, 116A-116B. Graded courses in the Bohemian language.	NOYES and KAUN.
130. Russian Novelists (lectures).	NOYES.
131. Recent Russian Literature (lectures).	KAUN.
132. Polish and Bohemian Literature (lectures).	NOYES.
133. The Serbian People (lectures).	KRUNICH.
140. The Political Development of Modern Russia (lectures).	KAUN.
150. Russian Commerce and Industry (lectures).	KAUN.

ZOOLOGY

Professors: C. A. KOFOID, W. E. RITTER, J. C. MERRIAM, S. J. HOLMES, J. F. DANIEL, J. GRINNELL, J. A. LONG.

Acting Instructor: PIRIE DAVIDSON.

Facilities.—The department of zoology is at present housed in East Hall, occupying 25,000 square feet, including a large lecture room provided with a reflectoscope, two well equipped laboratories for general work, laboratories for experimental zoology, advanced vertebrate zoology, protozoology and parasitology, embryology and cytology, special laboratories for research students, and an animal room. In the attic of the building two well equipped rooms for breeding rodents, where a considerable number of rats and mice are kept, are provided.

The laboratories in zoology are equipped with high-grade microscopes of foreign and American makers, with microtomes, electric ovens, photographic apparatus, an Edinger projection apparatus, ample glassware and reagents, and all apparatus necessary for morphological work and for work along some experimental lines.

The ample grounds of the University at Berkeley, containing about 600 acres, reservoir, streams, wooded slopes and cañons, afford a greatly diversified biological environment and considerable range for study and observation.

The location of the University near the shores of San Francisco Bay and the Pacific Ocean gives an immediate access to the life of the sea. The explorations carried on by the department of zoology on the coast of California for a number of years have provided a rich collection of invertebrates and fishes representative of the marine fauna of the Pacific Coast from San Diego to Alaska. This affords opportunity for investigation and greatly enriches the resources for biological investigation along morphological, systematic, and ecological lines. The collections of plankton are extensive and represent the seasonal, local, and vertical distribution of the pelagic life of the Pacific off the coast of California, affording exceptional opportunities for the study of the ecology of the sea.

A teaching museum of the local fauna and of typical material is maintained in the department. A considerable collection of models of Ziegler, Auzoux, and others is provided. The department is equipped with charts of Leuckart and Nitzsche, Pfurtscheller, Hartmann and Donitz, Haecker, and others specially made.

A collection of zoological, embryological and histological preparations including approximately 15,000 slides for instruction and investigation is available for use. The department also has an exceptionally large number of slides illustrative of the Protozoa and of human and comparative parasitology.

Library.—The library facilities at the University for research in biological lines include the leading current periodicals and complete sets of nearly all the most important serials on biological subjects. The library of the California Academy of Sciences in San Francisco affords additional facilities in certain lines. An exceptionally complete private library in protozoology and parasitology is accessible to research students.

Publications.—Facilities for publication of research work carried on in this department are offered in the *University of California Publications in Zoology*. This series began in 1902 and the twenty-second volume is now in course of publication. Facilities for publication are also afforded elsewhere, especially in the *Journal of Animal Behavior*, *Acta Zoologica*, the *Condor*, the *Internationale Revue der Hydrobiologie*, of which members of the staff are editors.

Research.—Research work done in the department in recent years embraces a variety of subjects. The fauna of the state has engaged considerable attention, and papers have been published on the marine protozoa, especially the dinoflagellates, the hydroids, the jelly fish, the bryozoans, the mollusks, the tunicates, the pycnogonids, the crustaceans, and on certain groups of worms. By the combined efforts of the Scripps Institution at La Jolla, California, and the department of zoology much progress has been made toward a systematic description of the marine animals of the coastal waters of the state. The department of zoology in coöperation with the United State Bureau of Fisheries has recently made a systematic biological and physiographic survey of San Francisco Bay, and its results are in process of publication.

The laboratory of the Division of Parasitology of the California State Board of Health is located in East Hall under the direction of Professor Kofoid and affords opportunity and material for research in human parasitology.

A number of papers have appeared on parasitic protozoa and other parasitic animals and on various aspects, statistical and ecological, of the plankton, both marine and fresh-water. The department has made contributions to the morphology of the Protozoa, cestodes, trematodes, tunicates, and several other groups. In the past years papers have been published on animal behavior, experimental morphology, and the distribution of animals.

There is work now in progress in protozoology, especially on marine Protozoa, and on human Protozoa, flagellates of the vertebrates, of the

Hemiptera and of the termites, in parasitology, cytology, embryology, especially the earlier phases of the development of mammals, morphology, especially of the elasmobranchs, ecology, and animal behavior, the hereditary influences of alcohol, inheritance in man and in animals, the systematic zoology of various groups, and various problems in experimental morphology and in eugenics.

The Museum of Vertebrate Zoology.—The California Museum of Vertebrate Zoology was founded in March, 1908, by Miss Annie M. Alexander, then of Oakland, and has been continuously supported by her as a constituent part of the University up to the present year (1919) when she has provided a permanent endowment for it.

The Museum occupies a separate fire proof building having about 10,000 feet of floor space. It contains rooms for large skins of mammals, for skulls and skeletons, for alcoholic specimens and for supplies as well as rooms for research workers and the staff.

The objects of the Museum are to collect and preserve in condition suitable for future study, specimens of recent vertebrate animals (other than fishes), especially those from the Pacific coast region of North America; to gather all available data relating to these forms; to study the systematic, distributional, ecological, and economic problems relating to the vertebrate fauna of this coast; and to make the results of such study available to those interested in the special fields enumerated.

The collections in the Museum have for the most part been gathered by trained field naturalists organized into "expeditions." Each expedition has studied intensively the vertebrate fauna of some restricted area. To date (1919) there have been more than twenty formal expeditions besides numerous smaller trips for the gathering of specific material. The regions worked include Southeastern Alaska, central Vancouver Island, northeastern Nevada, portions of Arizona and extensive areas in California. The material collected is all provided with the data such as to make it satisfactory for the study of problems in systematic and faunal zoology. The collections are housed in the most modern of storage cases designed to preserve the material in the best possible conditions. Appropriate card catalogues facilitate reference to material sought for study.

Subsequent field work is planned so as to throw greater light on material previously collected, so that with growth the entire collection appreciates in value in elucidating the problems offered by the fauna as a whole. It is becoming possible to trace out with increasing detail the local distribution of many species and hence to make possible comparison of adjacent faunas with greater and greater assurances of accuracy. The collections serve as historic pictures of the vertebrate fauna at the time when the material was collected and will be of great value in subsequent

years in tracing the effects upon the original fauna of deforestation, cultivation and settlement of the region.

In December, 1919, there were catalogued 30,519 specimens of mammals (skins with skulls and often with skeletons), 31,347 birds (mostly study skins), and 7163 reptiles and amphibians (in alcohol). There were 1804 sets of bird eggs and nests, 3228 negatives and photographs relating mostly to regions visited and species collected, and over sixty volumes of original field notes containing descriptions of regions visited by expeditions, animals seen and collected.

This material lends itself to study along the lines already mentioned for both scientific and practical purposes. It affords basis for studies upon the more general problems of zoology such as isolation, adaptation and speciation. The foundation study for breeding experiments with native forms can be gained from it for many groups. The nature and quantity of the material is such that the subject of variation, in its numerous aspects, can be studied to advantage, and osteological and anatomical researches upon Pacific Coast species can be successfully prosecuted.

Practical training in certain phases of economic zoology, such as is needed for work in game administration, preservation and culture, and control of rodent pests, is well provided for. The prospective teacher of vertebrate zoology will find here excellent resources for preparing himself for this calling.

Publications.—The principal publications in the past two years are as follows: the subelavian vein and its relations in elasmobranch fishes (J. F. Daniel); the musculature of *Heptanchus maculatus* (P. Davidson); the period of synapsus in the egg of the white rat, *Mus Norvegicus Albinus* (B. H. Pratt and J. A. Long); the rôle of the auditory sensory epithelium in the formation of the stapedia plate (F. P. Reagan); experimental inhibition of neural concrescence and some conditions resulting (F. P. Reagan); the approaching extinction of the Mayflower descendants (S. J. Holmes and C. M. Dowd); social ameliorations and eugenic progress (S. J. Holmes); the transmission of nervous impulses in relation to locomotion in the earthworm (J. F. Bovard); the function of the giant fibers in earthworms (J. F. Bovard); demonstration of the functions of the neuromotor apparatus in *Euplotes* by the method of microdissection (C. V. Taylor); a synopsis of the bats of California (H. W. Grinnell); the Pacific Coast jays of the genus *Aphelocoma* (H. S. Swarth); evidence of the food hawks and owls in California (H. C. Bryant); excavations of burrows of the rodent *Aplodontia*, with observations on the habits of the animal (C. L. Camp); bird migration in its international bearing (J. Grinnell); the game birds of California (J. Grinnell, H. C. Bryant, and T. I. Storer); three new subspecies of *Passerella iliaca* (H. S. Swarth); recent additions to the California state list of birds (J. Grinnell); natural history of the ground squirrels of California (J. Grinnell and J. Dixon); notes

on the elegant tern as a bird of California (J. Grinnell); an unusual extension of the distribution of the shipworm in San Francisco Bay, California (A. L. Barrows); description of some new species of Polynoidae from the coast of California (Christine Essenberg); the factors controlling the distribution of the Polynoidae of the Pacific Coast of North America (Christine Essenberg); new species of Amphinomidae from the Pacific Coast (Christine Essenberg); a quantitative analysis of the molluscan fauna of San Francisco Bay (E. L. Packard); the occurrence of a rock-boring isopod along the shore of San Francisco Bay (A. L. Barrows); the marine decapod Crustacea of California (W. L. Schmitt); the plankton of the San Joaquin River and its tributaries in and near Stockton, California, in 1913—a quantitative and statistical study (W. E. Allen); the cercaria of the Japanese blood fluke, *Schistosoma japonicum* Katsurada (W. W. Cort); notes on the eggs and miracidia of the human schistosomes (W. W. Cort); a new cercariaeum from North America (W. W. Cort); adaptability of schistosome larvae to new hosts (W. W. Cort); methods of studying living trematodes (W. W. Cort); the excretory system of a stylet cercaria (W. W. Cort); excretory system of *Agamodistomum marcianae* (La Rue), the Agamodistome stage of a fork-tailed cercaria (W. W. Cort); homologies of the excretory system of the fork-tailed cercariae—a preliminary report (W. W. Cort); a muscid larva of the San Francisco Bay region sucking the blood of nestling birds (O. E. Plath); the life cycle of *Echinostoma revolutum* (Froelich) (J. C. Johnson); flagellate affinities of *Trichonympha* (C. A. Kofoid with O. Swezy); biological and medical significance of the intestinal flagellates (C. A. Kofoid); intestinal parasites in overseas and home service troops of the U. S. Army with especial reference to carriers of amebiasis (C. A. Kofoid with S. T. Kornhauser and J. T. Plate); a new nematode infection of man (C. A. Kofoid with A. W. White); on the treatment of giardiasis in rats with arsenobenzol (C. A. Kofoid with W. C. Boeck, D. E. Minnich, and J. H. Rogers); rapid method for detection of ova in intestinal parasites in human stools (C. A. Kofoid with M. A. Barber); criterions for distinguishing the *Endamoeba* of amoebiasis from other organisms (C. A. Kofoid with S. T. Kornhauser and O. Swezy); structure and systematic relationships of the "iodine cysts" from human feces (C. A. Kofoid); mitosis in *Giardia microti* (W. C. Boeck); *Crithidia euryophthalmi*, sp. nov. from the hemipteran bug, *Euryophthalmus convivus* Stal (Irene McCulloch); a rapid method for the detection of protozoan cysts in mammalian faeces (W. C. Boeck); the neuromotor apparatus of *Euplotes patella* (H. B. Yocom); the significance of skeletal variations in the genus *Peridinium* (A. L. Barrows); studies on *Giardia microti* (W. C. Boeck); a comparison of the life cycle of *Crithidia* with that of *Trypanosoma* in the invertebrate host (Irene McCulloch); binary fission in *Collodictyon tricilatum* Carter (R. C. Rhodes); studies on the parasites of the termites. I. On *Streblomastix*

striz, a polymastigote flagellate with a plasmodial phase; II. On *Trichomitus termitidis*, a polymastigote flagellate with a highly developed neuro-motor system; III. On *Trichonympha campanula* sp. nov.; IV. On *Leidyopsis sphaerica* gen. nov., sp. nov. (C. A. Kofoid and O. Swezy); the transmission of nervous impulses in relation to locomotion in the earthworm (J. F. Bovard); the function of the giant fibers in earthworms (J. F. Bovard).

HIGHER DEGREES

Preliminary Requirements.—For full graduate standing in the department of zoology the completion of 16 units of undergraduate major work with its prerequisite of one year of elementary zoology is ordinarily required. On account of the varied work that may be carried on under the head of zoology, the student may present substitutes in allied branches of science for a part of these 16 units, the amount and character of this substitution to be decided by the department upon the merits of the particular case and the plan of work proposed. In default of the specified preparation in zoology or related biological subjects, the student will be required to make up this deficiency before being admitted to full graduate work in the subject.

Graduate Courses.—Ordinarily admission to the graduate courses in zoology will be based on the fulfillment of the requirements for full graduate standing in the department. Graduate students in other biological subjects may, at the option of the instructors concerned, be admitted to graduate courses in zoology.

High School Teacher's Recommendation.—The recommendation of the department is based upon the satisfactory completion of 16 units of major work or of honors. Applicants for this recommendation are advised to include in their undergraduate program of study elementary courses in chemistry, botany, physiology, bacteriology, and entomology.

Master's Degree.—Recommendation for this degree is ordinarily based upon the satisfactory completion of a thesis suitable for publication.

Doctor of Philosophy.—Preparation for the degree of Doctor of Philosophy involves a broad, general training in zoology, a knowledge of related branches of science and the ability to read both French and German. The doctorate is given only on the basis of proven ability in investigation and manifested in the production of a thesis. The minor or minors for the doctorate should be chosen ordinarily in a science allied to zoology.

A single minor in zoology normally requires 12 units of upper division or graduate courses including seminar or research courses taken in graduate status. A second minor requires 6 units of such courses.

A written examination in the fundamentals of zoology is required of all candidates for the doctorate normally one year prior to the final public examination.

It is desirable that candidates for the doctor's degree in Zoology spend one semester or at least one summer at the Biological Station at La Jolla. Arrangements for residence there should be made for the summer not later than April first and for either semester, several months in advance. Applications for the privilege of residence should be addressed to Professor W. E. Ritter, Director of the Scripps Institution for Biological Research, La Jolla, California. See statement of Scripps Institution for Biological Research. No special provision is made for research at La Jolla other than that in the programme of this institution, but students requiring such provision beyond that ordinarily available at La Jolla, may be supplied from Berkeley.

GRADUATE COURSES

Original study on special topics, in the field, laboratory and museum, may be carried on in the laboratories at Berkeley or at the San Diego station at any season of the year.

221A-221B. Seminar in History of Biological Thought.	KOFOID.
222A-222B. Journal Club.	The Staff.
224A-224B. Research.	The Staff.
240A-240B. Seminar in Protozoology.	KOFOID.
299. Thesis for the Master's Degree.	The Staff.
300. Teachers' Course.	HOLMES.

UPPER DIVISION MAJOR COURSES

103. Experimental Morphology.	DANIEL.
103c. Experimental Morphology.	DANIEL.
104. Animal Behavior.	HOLMES.
106. Comparative Anatomy of the Higher Vertebartes.	MERRIAM, REAGAN.
107. Cytology.	LONG.
108. Embryology.	LONG.
109. Biology of Water.	KOFOID.
109c. Biological Examination of Water.	KOFOID.
110. Protozoology.	KOFOID.
111. General Parasitology.	KOFOID.
111c. The Morphology and Life History of Animal Parasites.	KOFOID.
112. Invertebrate Zoology.	REAGAN.
113. General Vertebrate Zoology.	GRINNELL.
114. Heredity and Evolution.	HOLMES.
115. Eugenics.	HOLMES.

HIGHER DEGREES CONFERRED, 1918-19

All degrees are conferred on June 4, 1919, as of that date, with exception noted as follows: * conferred December 20, 1918, as of that date.

Graduate Division

The Degree of Master of Science upon

*Charles Junius Booth Agriculture Ontario
B.S. 1908.

Thesis: Horticulture in the high school with a detailed outline of a course of study.

Dai Tung Pang Metallurgy Canton, China
B.Ch.E. (University of Michigan) 1916.

Thesis: A study of commercial flotation oils with special reference to flotation of pyrite.

Andries Johannes van Tonder Irrigation
..... Waaikraal O.F.S., South Africa

A.B. (University of Cape of Good Hope) 1912; B.S. (London University) 1917.

Thesis: Design of the diversion works of an irrigation system.

Ming Yoh Yu Metallurgy
..... Ningpo, Chehkiang, China

B.S. (Peking Government University) 1917.

Thesis: A study of the conditions favorable to the reduction of tin in smelting.

The Degree of Master of Arts upon

Myles Allman Celtic Dublin, Ireland
Ph.B. (Maynooth University) 1910; A.B. (National University of Ireland) 1912.

Thesis: The necessity of the Irish language for the maintenance of Irish civilization.

*Rodney Fremont Atsatt Bacteriology Los Angeles
A.B. (Pomona College) 1918.

Thesis: Some cultural reactions of certain anerobic bacteria in brain media, with special reference to the effect of carbohydrates upon these reactions.

Louis Edward Barber French Berkeley
A.B. (Harvard University) 1912.

Thesis: Lamartine. Poète, orateur, et homme d'état humanitaire.

Arthur Elmer Belt Research Medicine Los Angeles
A.B. 1916.

Thesis: The regeneration of serum proteins under experimental conditions.

- Helen Bergfried Botany Berkeley
 A.B. 1918.
Thesis: A discussion of phylogenetic sequence in Dicotyledonous Angiosperms.
- *Bertha Blount History Berkeley
 A.B. (University of Michigan) 1907.
Thesis: The Apaches in United States history, 1846-1886.
- *Florence Marguerita Carpenter English Berkeley
 A.B. (Cornell University) 1918.
Thesis: Poe and Balzac in the detective story and the tale of the grotesque and arabesque.
- Carrie Ethel Castle Household Science Mt. Hamilton
 B.S. (Oregon Agricultural College) 1918; A.B. 1918.
Thesis: A study of home-canning methods and their effect on the viability of certain anaerobes found in canned foods.
- Edith Lucille Chidester Mathematics Medford, Oregon
 A.B. 1918.
Thesis: Covariants and contravariants of the conic.
- Cordelia Dorothea Crain English Berkeley
 A.B. 1918.
Thesis: A study of motive and character in the romances of Nathaniel Hawthorne.
- Mary Alice Dana Geography San Diego
 A.B. 1918.
Thesis: California boundaries, past and present; their relation to geographic conditions.
- Charles Thomasson Dozier Astronomy Berkeley
 B.S. 1902.
Thesis: An application of the calculating machine to the computation of orbits.
- Ruth Isabel Eager English West Newton, Massachusetts
 A.B. (Wellesley College) 1902.
Thesis: George Eliot as a dramatic novelist.
- Joseph Ellison History Oakland
 A.B. 1917.
Thesis: Sentiment in California for a Pacific Republic, 1843-1861.
- William Ferdinand Ewing Education Oakland
 A.B. (Stanford University) 1906.
Thesis: The large high school and some of its problems.
- Edith Maud Fenton English Escanaba, Michigan
 Ph.B. (University of Chicago) 1911.
Thesis: The tempestuous novel.
- Elizabeth Van Everen Ferguson Botany Berkeley
 A.B. 1917.
Thesis: The genus *Sidalcea*, its taxonomy and geographic distribution.
- Marjorie Flynn Zoology Berkeley
 A.B. 1917.
Thesis: Some effects of aqueous solutions of ethyl alcohol on *Euplotes patella*.

- Daniel Parsons Foster Research Medicine.....Portland, Oregon
A.B. 1917.
Thesis: A method for quantitative analysis of blood fibrin in small amounts of blood.
- Mirian Marcella Garland EnglishBakersfield
A.B. 1918.
Thesis: The development of realism in Chaucer.
- Helen Lavinia Garrett FrenchHollywood
A.B. (Knox College) 1918.
Thesis: An analysis of the symbolic system in Maeterlinck's *Serres Chaudees*.
- Mary Catharine Gates PhilosophyTwin Falls, Idaho
A.B. (University of Iowa) 1916.
Thesis: A mental survey of all dependent children who came into the Juvenile Court of San Francisco between January 28 and April 2, 1919.
- *Margaret Gleason EducationLos Angeles
Ph.B. (University of Iowa) 1898; B.S. and B.Ed. (University of Chicago) 1907.
Thesis: An elementary course for women as home managers.
- Dorothy Catherine Hahn LatinOakland
A.B. 1918.
Thesis: Social conditions at Rome as found in the *Silvae* of Statius.
- Jane Caroline Halbert Research Medicine.....Oakland
A.B. 1918.
Thesis: Studies on renal typhoid carriers.
- *Alfred Street Hamlin HistorySierraville
A.B. (University of Nevada) 1906.
Thesis: The federal policy in relation to the Nevada Indians.
- Clara Alice Hawkins HistoryMerced
A.B. 1915.
Thesis: The history of primary education in France at the eve of the French Revolution.
- *Ruth Frances Horel Dental PathologyArcata
A.B. 1917.
Thesis: The use of hypochlorites and chloramines in dentistry.
- Helen Havens Ingels EconomicsBerkeley
A.B. 1915.
Thesis: The history of the workingmen's party of California.
- Ida Marian Jenkins LatinOntario
A.B. (Pomona College) 1918.
Thesis: The syntax of the dative case in the *Silvae* of Statius.
- John Lawrence Kerchen EducationBerkeley
A.B. 1917.
Thesis: The attitude of organized labor toward vocational education.
- *Olive Kuntz HistoryPomona
A.B. 1916.
Thesis: The conflict between the Caesar cult and the Christ cult in its relation to the development of the early Christian church.

- *Ralph Simpson Kuykendall History Santa Clara
 A.B. (College of the Pacific) 1910.
Thesis: History of early California journalism.
- Hester Geraldine Lester Political Science Berkeley
 A.B. 1918.
Thesis: Plans of world organization.
- Norma Ebole LeVeque Education Boulder, Colorado
 A.B. and B.E. (University of Colorado) 1918.
Thesis: Evening school opportunities for Berkeley.
- *Anna Lewis History Berkeley
 A.B. 1915.
Thesis: History of the cattle industry in Oklahoma, 1866-1893.
- Grace Joy Lewis English Fresno
 A.B. 1918.
Thesis: The tradition of the alien critic in literature.
- *Mary Eunice Lewis German Springbrook, Oregon
 B.S. 1905 and A.B. 1906 (Pacific College); A.B. (Penn College) 1907.
Thesis: A comparative study of Otto Ludwig and Walter Scott.
- *Louis Paulger Linn Education Berkeley
 Ph.B. (Upper Iowa University) 1902.
Thesis: The city school superintendent in general legislation.
- Ruth Tomkinson McGlynn Bacteriology San Francisco
 A.B. 1917.
Thesis: Solubility of bacterial micro-organisms in bile with special reference to some obligative anaerobes.
- Ivander MacIver History El Paso, Texas
 A.B. 1917.
Thesis: The scholarship of Alexander Neckam (d. 1217).
- Dorothy Louise Mackay History San Francisco
 A.B. 1918.
Thesis: The Hôtel-Dieu of Paris in the thirteenth century.
- Clifford Marvin Montgomery Spanish Dallas, Texas
 A.B. (Southwestern University) 1914.
Thesis: Diary of the first Anza expedition to California: translation, with introduction and editorial notes.
- Carlos Samson Mundt History Alameda
 A.B. 1917.
Thesis: The French Navy (1789-1814).
- Margaret Blanche Harrison Myers Mathematics San Luis Obispo
 A.B. 1918.
Thesis: An application of quadratic transformation to Pascal's theorem and to certain theorems associated with it.
- *Dorothea Prall Slavic Languages Berkeley
 A.B. (University of Michigan) 1910.
Thesis: Nekrasov's poems of peasant life.

- Elizabeth Privat French Paris, France
State Certificate, Paris, 1914.
Thesis: Les origines françaises des Contes d'Edgar Poe.
- Marie Reese Botany Los Angeles
A.B. 1918.
Thesis: Differentiation of the axes of *Gastroclonium*.
- *Mary Letitia Ross History San Diego
A.B. 1916.
Thesis: The Anglo-Spanish conflict in the Caribbean and the North American mainland (16th and 17th centuries).
- Adele M. Roth German Pasadena
Graduate, Dr. Schubert's Seminar, Vienna, Austria.
Thesis: Fact and fiction in Mörike's poetry.
- Flora Lucie Rouleau Graphic Art Oakland
A.B. 1918.
Thesis: Two decorative panels 40" X 46" painted in oil from my own original designs.
- Mariel Morris Rushmore Spanish Berkeley
A.B. 1917.
Thesis: History and tradition in the works of Gustavo Adolfo Bécquer.
- Queenie Santikian History Fowler
A.B. (Pomona College) 1915.
Thesis: Armenia and the Crusades.
- Paula Schoenholz Research Medicine..... San Francisco
A.B. 1918.
Thesis: The growth of *Bacillus typhosus* at varying hydrogen ion concentrations.
- Laurence Seymour Slavic Languages Santa Monica
A.B. 1917.
Thesis: Ostrovsky's world: an interpretation.
- Edward Byer Shaw Research Medicine..... Los Angeles
A.B. 1917.
Thesis: Cutaneous hypersensitiveness in guinea pigs immunized and infected with typhoid and paratyphoid bacilli.
- Ethel Burnham Sheldon Education Los Angeles
A.B. (University of Minnesota) 1910.
Thesis: Citizenship training in connection with the study of Caesar, Cicero, and Virgil.
- Helen Karr Simpson Philosophy..... Poughkeepsie, New York
A.B. (Vassar College) 1918.
Thesis: The Lockian spirit of the encyclopaedist movement in France.
- Harry Pratt Smith Research Medicine..... San Francisco
A.B. 1916.
Thesis: Regeneration of serum proteins under experimental conditions.
- Mae Alice Tenney English Des Moines, Iowa
A.B. (Greenville College) 1914.
Thesis: Rudyard Kipling's literary relations with the French.

- Mary Louise Todd English Redlands
 A.B. (University of Colorado) 1910.
Thesis: Wordsworth and the popular ballad.
- Marion L. Underwood History Hollywood
 A.B. 1918.
Thesis: Survivals of Spanish influence in the Southwest.
- Maud Whitlock Philosophy Los Angeles
 B.S. (Columbia University) 1905.
Thesis: A study of reading in its relation to young children.
- Loretta Fredericka Wilson History San Francisco
 A.B. 1918.
Thesis: The political and ecclesiastical reforms of the City of Mexico as suggested by Hipólito Villarroel in his *Enfermedades Políticas*, 1786. Vol. 1. Translation, with critical and explanatory notes.
- Sarah Agnes Wolcott Education Long Beach
 B.S. (Pomona College) 1908; B.S. 1904.
Thesis: A partial vocational survey of Long Beach.
- Flora Alice Wright History Lodi
 B.L. 1907.
Thesis: Richard Barnes Mason, Governor of California.
- Dorothy Maud Hazeltine Yates Philosophy Oakland
 A.B. (Wellesley College) 1910.
Thesis: A study of twenty superior students in the senior class of the Oakland High School.

The Degree of Graduate in Education (School of Education) upon

- Herbert Nelson Massey Berkeley
 A.B. (Ohio State University) 1906; M.S. 1913.
Thesis: An analysis of the chemical industries of the east San Francisco Bay region for purposes of vocational education.

The Degree of Juris Doctor (School of Jurisprudence) upon

- Eloise Bostwick Cushing Oakland
 A.B. 1917.
Thesis: A discussion of recent decisions in state and federal courts.
- Kinuji Kobayashi Berkeley
 LL.B. (Kansai University) 1913; A.B. 1917.
Thesis: A critical comparison of the principal systems of mining law now in operation, with special reference to their historical development.
- Paul Sylvester Marrin Twin Falls, Idaho
 A.B. 1917.
Thesis: A discussion of recent cases in the law of corporations and property.
- Theresa Alberta Meikle Ashland, Oregon
 A.B. 1915.
Thesis: A review of certain cases in state and federal courts.

- Rosamond ParmaSanta Barbara
B.L. 1908.
Thesis: Principles involved in recent cases in the law of water and statutory interpretation.
- Albert Roy RowellBerkeley
A.B. 1916.
Thesis: Comment on current decisions of the California and Federal courts.
- Calmur John StrubleSan Diego
A.B. 1917.
Thesis: A critical review of current decisions in the law of torts and pleading.
- Leonard John Van den BerghOakland
Grad. in Philosophy (St. Joseph's College, Resendaal, Holland) 1893; Grad. in Theology (St. Joseph's College, London, England) 1886; LL.B. (University of Oregon) 1917.
Thesis: The legal status of women in Uganda.
- M. Helen Van GulpenSan Francisco
B.L. 1910; M.L. 1911.
Thesis: A comment on cases in the law of wills and evidence.
- David John WilsonOgden, Utah
A.B. (Brigham Young University) 1914.
Thesis: A criticism of recent decisions in constitutional and property law.
- The Degree of Doctor of Medicine (Medical School) conferred as of
May 15, 1918, with the single exception noted, upon**
- Mary Isabelle ArmstrongPiedmont
A.B. 1915.
- Thomas Floyd BellPleasanton
A.B. 1915.
- † Charles Barrows BennettSan Francisco
Ph.B. 1906; M.A. and M.S. 1910 (Brown University); Ph.D. 1912.
- Robert Wilson BinkleySanta Ana
A.B. 1915.
- Florence Josephine ChubbBakersfield
B.L. 1910. Died, October 27, 1918.
- Frederick Carl CordesSanta Ana
A.B. 1915.
- Henry Chipman DodgeStockton
A.B. 1915.
- Charles Louis FreytagSan Rafael
A.B. 1915.
- Walter Herbert FrolichSan Francisco
A.B. 1915.

† Degree conferred December 10, 1918.

Cavins Deter Hart	Colusa
A.B. 1915.	
Mary Ruth Hill	Carson City, Nevada
A.B. 1915.	
Harold Homer Hitchcock	San Francisco
A.B. 1915.	
William Patrick Joseph Lynch	Stockton
John Gray McQuarrie	Beaver City, Utah
Sidney Olsen	Riverside
A.B. 1915.	
Ralph Rabinowitz	San Francisco
A.B. 1915.	
Ethel Lucia Righetti	San Francisco
B.S. 1914.	
Homer Righetti	San Francisco
A.B. 1915; M.A. 1916.	
William Dan Sink	Cloverdale
A.B. 1915.	
William Otto Solomon	Eureka
A.B. 1915.	
Laurence Taussig	San Francisco
A.B. 1915; M.A. 1916.	
Fletcher Brandon Taylor	Pasadena
A.B. 1915; M.A. 1916.	

The Degree of Doctor of Philosophy upon

Raymond Barrington Abbott	Physics, Mathematics	Berkeley
B.S. 1908; M.S. 1912.		
<i>Thesis:</i> Law of motion of a droplet moving with variable velocity in air.		
Charles Stewart Bisson	Physical Chemistry, Inorganic Chemistry, Mechanics.....	Berkeley
B.S. 1915; M.S. 1916.		
<i>Thesis:</i> The heat of solution and the partial molal heat content of the constituents in aqueous solutions of sodium chloride.		
Parry Borgstrom	Organic Chemistry, Biochemistry,	Cheney, Wasington
B.S. (Whitman College) 1915; M.S. 1916.		
<i>Thesis:</i> Tetraphenyldiarsine.		

- *Guy Wendell Clark Biochemistry
 Colorado Springs, Colorado
 A.B. 1912 and M.A. 1914 (Colorado College).
Thesis: The properties and composition of oöcytin.
- William Henry Ellison History Santa Barbara
 A.B. (Randolph Macon College) 1904; M.A. 1918.
Thesis: The Federal Indian policy in California, 1846-1860.
- Marjorie Greene Foster Research Medicine..... San Francisco
 A.B. 1914 and M.A. 1915 (Stanford University).
Thesis: The metabolism of bile acids.
 Died, January 5, 1919.
- John Christopher Johnson Zoology, Education
 Greeley, Colorado
 A.B. (State Teachers' College of Colorado) 1911; M.S. 1915.
Thesis: The life cycle of *Echinostoma revolutum* (Froelich).
- Wendell Mitchell Latimer Physical Chemistry, Physics.. Berkeley
 A.B. (University of Kansas) 1915.
Thesis: The entropy and free energy of formic acid from specific heat measurements.
- Albert Geyer Loomis Physical Chemistry, Physics, In-
 organic Chemistry Berkeley
 A.B. 1914 and M.A. 1915 (University of Missouri).
Thesis: A study of the system: ammonia, magnesium, mercury.
- Eleanor Lowden English Literature, English
 Philology Berkeley
 Ph.B. (Grinnell College) 1903; M.L. 1911.
Thesis: The development of dramatic dialogue in English mystery plays.
- Irvine McQuarrie Research Medicine, Pathology
 St. George, Utah
 A.B. (University of Utah) 1915.
Thesis: Renal function as influenced by intestinal obstruction and by proteose intoxication.
- William Ferdinand Meyer Astronomy, Physics, Mathematics,
 Mt. Hamilton
 B.S. (Drake University) 1907.
Thesis: A study of certain nebulae for evidences of polarization.
- Theodore Pockstaller German Literature, German Philology,
 American History.. Feldkirch, Austria
 M.A. 1916.
Thesis: Juan Maria de Salvatierra S.J. and the establishment of the first permanent settlements in California (1697-1708).
- *David Wight Prall Philosophy Berkeley
 A.B. 1909 and M.A. 1910 (University of Michigan).
Thesis: A study in the theory of value.

Lloyd Nash Robinson Electrical Engineering, Mathematics Berkeley

B.E. (Union College) 1911; M.S. 1917.

Thesis: The analytical determination of electric railway speed-time relations.

Forrest Eugene Spencer Spanish, French, Romanic Philology San Francisco

B.L. 1911; A.B. 1913; M.A. 1914.

Thesis: Luis Vélez de Guevara; a study in his life and dramatic art.

Ruth Lovilla Stone Pathology, Biochemistry San Francisco

A.B. 1915; M.A. 1916.

Thesis: The dissemination and destruction of typhoid bacilli injected intravenously in normal and immune rabbits.

*Charles Vincent Taylor Zoology Mt. Morris, Illinois

A.B. (Mt. Morris College) 1911; M.A. 1916.

Thesis: Microdissection studies in *Euplotes patella*.

Mary Floyd Williams History Oakland
B.L. 1913.

Thesis: The San Francisco Committee of Vigilance of 1851: its significance in the history of California.

Clyde Lynne Earle Wolfe Mathematics Los Angeles

B.S. 1906 and M.S. 1907 (Occidental College); M.A. (Harvard University) 1908.

Thesis: On the indeterminate cubic equation $x^3 + Dy^3 + D^2z^3 - 3Dxyz = 1$.

Douglas Wright, Jr. Soil Chemistry, Biochemistry Berkeley

B.S. (University of Illinois) 1916.

Thesis: Equilibrium studies with certain acids and minerals and their probable relation to the decomposition of minerals by certain bacteria.

AWARDS OF GRADUATE AND PROFESSIONAL SCHOLARSHIPS AND FELLOWSHIPS 1919-20

LECONTE MEMORIAL FELLOWSHIP

FOUNDED BY THE ALUMNI ASSOCIATION, IN MEMORY OF PROFESSORS
JOHN AND JOSEPH LECONTE

Arthur Pryor Watts (History) Los Angeles
A.B. (Occidental College) 1914; M.A. 1916.

JAMES M. GOEWEY SCHOLARSHIP

FOUNDED BY THE FAMILY OF THE LATE JAMES M. GOEWEY

Margaret Campbell Mann (Zoology) Berkeley
A.B. (University of Oregon) 1915; M.A. 1918.

UNIVERSITY FELLOWSHIPS

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Nelson C. Davis (Research Medicine) Berkeley
A.B. 1917.

Paul Steere Burgess (Soil Chemistry) Honolulu, T. H.
B.S. (Rhode Island State College) 1910; M.S. (University of Illinois) 1911.

Grace Melissa Dangberg (Anthropology) Minden, Nevada
A.B. 1918.

Roscoe Harlan Gerke (Chemistry) Urbana, Illinois
B.S. (University of Illinois) 1918.

Henry V. Howe (Palaeontology) Eugene, Oregon
A.B. (University of Oregon) 1916.

Charles F. Coan (History) Berkeley
A.B. (University of Washington) 1908; M.L. 1914.

Roy Robert Morse (Geology) Oakland
B.S. 1913.

Robert Thackwell Trotter (Research Medicine) Walsh, Canada
Cand. A.B. 1919.

MARTIN KELLOGG FELLOWSHIP IN ASTRONOMY

Robert J. Trumpler Allegheny Observatory
Ph.D. (University of Göttingen) 1910.

LICK OBSERVATORY FELLOWSHIPS IN ASTRONOMY

Edith Cummings	Mt. Hamilton
A.B. 1915 and M.A. 1917 (University of Missouri).	
Priscilla Fairfield	Needham, Massachusetts
A.B. (Boston University) 1917.	
Hamilton Moore Jeffers	Berkeley
A.B. 1917.	
Charles Donald Shane	Mt. Hamilton
A.B. 1915.	

FLOOD FELLOWSHIPS IN ECONOMICS

FOUNDED BY MISS CORA JANE FLOOD

John Curtis Kennedy	Berkeley
A.B. (Cornell University) 1907.	
One vacancy.	

JOHN W. MACKAY, JUNIOR, FELLOWSHIPS IN ELECTRICAL
ENGINEERING

Carl Samuel Rohr	Watsonville
Cand. B.S. 1919.	
Daryl D. Davis	Berkeley
B.S. 1919.	

WHITING FELLOWSHIPS IN PHYSICS

FOUNDED UNDER THE WILL OF THE LATE HAROLD WHITING

Charles Henry Kunsman	Berkeley
B.S. (Pennsylvania State College) 1914; M.S. 1915.	
William Cyrus Pomeroy	Berkeley
B.S. 1914.	

NATIVE SONS FELLOWSHIPS IN PACIFIC COAST HISTORY

FOUNDED BY THE ORDER OF THE NATIVE SONS OF THE GOLDEN WEST

Doris West Bepler	San Francisco
A.B. 1917.	
Joseph John Hill	Salt Lake City, Utah
A.B. (Brigham Young University) 1909.	
Lloyd Mecham	San Bernardino
A.B. 1916; M.A. 1917.	
Rolland A. Vandegrift	Chico
A.B. 1918.	

BERTHA HENICKE TAUSSIG MEMORIAL SCHOLARSHIP

FOUNDED BY THE WILL OF THE LATE HUGO A. TAUSSIG

Sarah Unna (Philosophy)San Francisco
A.B. 1918.

THE PROFESSOR F. V. PAGET SCHOLARSHIP IN FRENCH

FOUNDED BY THE WILL OF MADAME F. V. PAGET

One vacancy

WILLIAM WATT KERR SCHOLARSHIP IN MEDICINE

Monroe SutterBerkeley

FRANK M. PIXLEY SCHOLARSHIP IN LAW

John Boardman WhittonOakland
A.B. 1916.

SHEFFIELD SANBORN SCHOLARSHIPS

FOUNDED BY MRS. FRANCIS B. SANBORN

In the Medical School

Hal Rexford HooblerSan Francisco
B.S. 1912.

In the School of Jurisprudence

Leslie Bernard ScalingheydeBerkeley
A.B. 1918.

In the Hastings College of the Law

One vacancy.

JOSEPH BONNHEIM MEMORIAL SCHOLARSHIP

FOUNDED BY MR. AND MRS. ALBERT BONNHEIM, OF SACRAMENTO,
IN MEMORY OF THEIR DECEASED SON

Margaret McCullySacramento
Cand. A.B. 1919.

**YOUNG WOMEN'S CHRISTIAN ASSOCIATION FELLOWSHIP IN
SOCIAL ECONOMICS**

GIVEN ANNUALLY BY THE YOUNG WOMEN'S CHRISTIAN ASSOCIATION
OF THE UNIVERSITY OF CALIFORNIA

Helen GeiserSacramento
Cand. A.B. 1919.

DUPONT FELLOWSHIP IN CHEMISTRY

GIVEN ANNUALLY BY E. I. DUPONT DE NEMOURS AND COMPANY

Dwight Cooley BardwellSalt Lake City, Utah
Cand. B.S. 1919.

GEORGE LADD PRIX DE PARIS IN MUSIC

FOUNDED BY THE WILL OF THE LATE MRS. ELIZABETH P. MITCHELL

Catherine Murphy UrnerBerkeley
A.B. (Miami University) 1912.

WILLARD DAWSON THOMPSON MEMORIAL SCHOLARSHIPS

FOUNDED BY THE WILL OF MRS. JENNIE D. THOMPSON

Thomas Dahlquist (Jurisprudence)Salt Lake City, Utah
A.B. 1917.

Mildred Hurd (Mathematics)Salt Lake City, Utah

Martha Knott (English)Murray, Utah

Anne L. Newman (English)Ogden, Utah

Fern L. Rives (English)Salt Lake City, Utah

James Thomas (Philosophy)Salt Lake City, Utah
A.B. 1917.

Shelly McKnightSalt Lake City, Utah

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- Poultry Husbandry, 56.
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5m-4-'20.

REGISTER—PART XV

COMMENCEMENT, 1920

MAY, 1920

UNIVERSITY OF CALIFORNIA

The Fifty-seventh Commencement

May 12, 1920

GREEK THEATRE
BERKELEY, MAY 12

PROGRAMME

Invocation

RABBI MARTIN A. MEYER

Hymn, "America"

My country, 'tis of thee,
Sweet land of liberty,
Of thee I sing;
Land where my fathers died,
Land of the pilgrim's pride.
From every mountain-side
Let freedom ring.

Let music swell the breeze,
And ring from all the trees,
Sweet freedom's song;
Let mortal tongues awake,
Let all that breathe partake,
Let rocks their silence break—
The sound prolong.

Our father's God—to Thee,
Author of Liberty,
To Thee I sing;
Long may our land be bright
With freedom's holy light;
Protect us by Thy might,
Great God our King.

A Defense of Old-fashioned Learning

FRANK HOWARD WILCOX
A.B. 1917

The Social Element as a Factor in Promoting More Efficient Farming

HARRY ALLAN SPROUL
B.S. 1919

Leadership as a Fundamental Problem in a Democracy

HELEN ROBERTA MACGREGOR
Cand. A.B., College of Letters and Science

The True Function of the University in the Life of the Community

MARION MITCHELL BOURQUIN

Cand. LL.B., Hastings College of the Law

Delivery of Military Commissions**Address to the Candidates for Degrees; Conferring of Degrees and Honors**

THE PRESIDENT OF THE UNIVERSITY

Hymn

O God, our help in ages past,
Our hope for years to come,
Our shelter from the stormy blast,
And our eternal home.

Before the hills in order stood,
Or earth received her frame,
From everlasting Thou art God,
To endless years the same.

A thousand ages in Thy sight
Are like an evening gone;
Short as the watch that ends the night
Before the rising sun.

O God, our help in ages past,
Our hope for years to come,
Be Thou our God while life shall last,
And our eternal home.

Benediction

UNIVERSITY OF CALIFORNIA

DEGREES CONFERRED, 1919-20

The asterisk (*) marks the names of candidates on whom degrees were conferred December 19, 1919.

California College of Pharmacy

The Degree of Graduate in Pharmacy upon

Orson Howe Adams.....	Etna Mills
Joseph Balemi.....	Santa Rosa
Roy Borgstrom.....	Oakland
Arthur Joseph Brannagan.....	San Francisco
Lafayette Ernest Burns.....	Auburn
George Leo Buttgenbach.....	San Francisco
Charles Joseph Caramella.....	San Jose
Elsie Isabelle Christensen.....	San Diego
Elmer George Conn.....	Richmond
Mark Lyle Douglas.....	East Auburn
Margaret Eckhoff.....	San Francisco
James Hubert Farrell.....	San Francisco
Harry Lewis Fletcher.....	San Francisco
John Francis Galvin.....	San Francisco
Hubert Raymond Gaskins.....	Oroville
Ida Lilian Gresham.....	Boise, Idaho
Shonosuke Ishikawa.....	San Francisco
Helen King.....	Menlo Park
Rudolphus Clay Knowlton.....	San Francisco
Josephine Lampert.....	Oakland
Edward Walter Levy.....	San Francisco
Cedric Andrew McClure.....	Red Bluff
Edward George Mahoney.....	Berkeley
Jacob Massion.....	Chugwater, Wyoming
Francis Earl Mixter.....	Exeter
Helen Gushaw Mudgett.....	Fortuna
Gustaf Adolf Ross.....	San Francisco

6 Graduates in Pharmacy; Pharmaceutical Chemists. Doctors—Dentistry

Benjamin Lawrence Schroeder.....	San Francisco
Ewell Fullerton Scott.....	Selma
Paul Reginald Sutton.....	Maxwell
Samuel Miller Dold Terrill.....	San Francisco
Percy Marlin Vernon.....	Berkeley
Cairns Howard Vogelmann.....	Modesto
James Herbert Walker.....	San Jose
Kay Kinkichi Watanabe.....	Sacramento
Clara Wells.....	Red Bluff
Norma Chipman Wells.....	Red Bluff
Clarence Donald Whitaker.....	San Rafael
Grace Wigg.....	Wrangell, Alaska

The Degree of Pharmaceutical Chemist upon

Sawaji Misawa.....	Japan
Leonard Scott Whitmore.....	San Mateo

College of Dentistry

The Degree of Doctor of Dental Surgery upon

Thomas Ryan Block.....	Gridley
James Homer Browne.....	Etna Mills
Francis Paul Burke.....	Oakland
Claude Tony Cochrane.....	San Francisco
LeRoy Walter Hahn.....	Berkeley
John Mervyn Haley.....	Berkeley
Howard E. Hendricks.....	San Francisco
B.S. 1908.	
Ardashes Arthur Kazanjian.....	Fowler
Marcel George Laplace.....	San Francisco
Joseph Edward Mathewson.....	Yreka
Max Peck.....	Russia
Edward Milo Seaman, Jr.....	Berkeley
Sanford Jacques Stein.....	San Francisco
Clayton Westbay.....	Stockton
*Joseph Edward Zales.....	Oakland

Hastings College of the Law

The Degree of Bachelor of Laws upon

Eugene Dunlap Bennett.....	Santa Cruz
LL.B. (Cumberland University).	
Marion Mitchell Bourquin.....	Butte, Montana
Simon Miller Collins.....	Berkeley
Henry Eickhoff, Jr.....	San Francisco
A.B. (Stanford University) 1919.	
Lawrence Mario Giannini.....	San Mateo
Roberto Antonio Jiménez.....	Alameda
Fred Levé.....	San Francisco
A.B. 1917.	
Eaton Harry Magoon.....	Honolulu, T. H.
Douglas May.....	Angels Camp
Frank Thomas O'Neill.....	San Francisco
Everett Hale Roan.....	Pasadena
Herbert H. Salinger.....	Piedmont
William Wallace Sheehan.....	San Francisco

College of Agriculture

The Degree of Bachelor of Science upon

William Henry Webb Alison, Jr.....	San Francisco
Henry T. Andersen.....	Selma
*Frederic William Anderson.....	Albion
Charles Lloyd Austin.....	Berkeley
Earl Murray Blair.....	Placerville
*Frank Brewster Bowker.....	Calexico
*Lloyd Payne Bradley.....	Berkeley
*Lloyd Noble Brown.....	Oakland
Elizabeth Ross Buffington.....	San Francisco
Ensley John Campbell.....	Orange
Fred G. Christenson.....	Selma
Herbert M. Coles.....	San Francisco
*Stanley W. Cosby.....	Berkeley
Vern W. De Tar.....	Orosi
*Henry Parke Everett.....	Nevada City
William Archer Glenn.....	Pleasant Grove
Harry Anthony Godde.....	Hollywood
George Morton Gowen.....	Bakersfield
Walter Geraldson Griffiths.....	Berkeley
Frederick Ernest Hadley.....	Pasadena

Glen Lester Hanner.....	Patterson
Joseph Ludwell Harlan, Jr.....	Woodland
Myron Russell Harris.....	Pasadena
Harry L. Holmes.....	Esparto
Ralph Lincoln Hooper.....	Escondido
Ethel Howell.....	Berkeley
Martin Richard Huberty.....	San Andreas
*Ronald Walter Hunt.....	Niles
Rose Sedgwick Keith.....	Oakland
Harvey Maher Kilburn.....	Los Angeles
Ralph Louis Lucksinger.....	El Cajon
Donald Graham McKay.....	Berkeley
A.B. 1919.	
Leavitt Mead McQuesten.....	Santa Cruz
Arthur Elwood Mead.....	Berkeley
John Franklin Osborn.....	Turlock
Charles Robert Peteler.....	Pasadena
Dmitry Popov.....	Los Angeles
Harold Willard Poulsen.....	Selma
John Lester Quail.....	Stockton
Johann Alexander V. D. Reinecke.....	Cape Town, South Africa
A.B. (University of the Cape of Good Hope) 1912.	
*Milton Victor Richter.....	San Mateo
Elmer James Salmina.....	St. Helena
Earl Davis Schlaman.....	Berkeley
Eberhardt George Schlapp.....	Melbourne, Australia
Henry Robert Schlapp.....	Melbourne, Australia
Willis Rolland Senter.....	Lemoncove
Fred H. Sheldon, Jr.....	Ojai
Byron Jennings Showers.....	Fresno
*Harry Allan Sproul.....	Berkeley
*Laurence Wilson Taylor.....	Berkeley
Theodosia Todd.....	Piedmont
Everett Frank Vawter.....	Santa Monica
Karl Michael Wagner.....	Hollywood
Leonard Risdon Ward.....	Kerman
John Reynolds Waters.....	West Lafayette, Indiana
*Carleton Gross Wells.....	Eureka
Howard T. Wheeler.....	Los Angeles
John Dorsey Wheeler.....	Fresno
Adrian Clyde Wilcox.....	Santa Clara
Winchester P. Wing.....	Palo Alto
Teizo Yahanda.....	Pacific Grove

College of Chemistry

The Degree of Bachelor of Science upon

Richard Berry Adams.....	Portland, Oregon
William Francis Giauque.....	Niagara Falls, Ontario
*Maurice Loyal Huggins.....	Berkeley
A.B. 1919.	
Edward J. Savannah.....	Seattle, Washington
A.B. 1919.	
*Alvin D. Smith.....	San Francisco
Anna Louise Sommer.....	Pasadena
*Jew Yam Yee.....	Honolulu, T. H.

College of Civil Engineering

The Degree of Bachelor of Science upon

Carl Williams Appleford.....	Los Angeles
A.B. 1919.	
Charles Wilson Fassett.....	Oakland
Sidney Silvey Gorman.....	San Francisco
Joel Brower Hodges.....	Los Angeles
Victor Lee Jones.....	Yucaipa
Harold Ernest Jorgensen.....	San Francisco
William Bailie Kyle.....	San Francisco
A.B. 1919.	
William Joseph Manetta.....	Fruitvale
Archie R. Norcross.....	Loveland, Colorado
A.B. 1919.	
John Walter Oakley.....	Piedmont
Thomas Russel Simpson.....	Fresno
Pieter Terlaak.....	Batavia, Java
Jonathan G. Wright.....	Berkeley

College of Commerce

The Degree of Bachelor of Science upon

Archer Charles Anderson.....	Albion
Cora Ingeborg Anderson.....	Los Angeles
Chilton C. Apps.....	Piedmont
Frances Gertrude Bacon.....	Medford, Oregon
Marjorie Angennette Barr.....	Los Angeles

*William Gustin Barrow.....	Coquille, Oregon
*Arthur Robert Bradford.....	Los Angeles
*Walter Budd Champlin.....	Berkeley
Frank Crane.....	Berkeley
Harold Dexter.....	Alameda
Lemuel Jackson Dunn.....	Concord
Fletcher Holland Dutton.....	San Rafael
Harriet Ellsworth.....	Niles
John Harvey Ferrill.....	Albion
Mindella Friedman.....	Berkeley
Harry Oliver Geary.....	Berkeley
Fon Kew Gee.....	Berkeley
Bart Albert Ghio.....	San Diego
Rebecca Eads Gregg.....	Glendale
Harold William Gunnison.....	Los Angeles
Louis Allen Hansen.....	San Francisco
Howard Walden Heintz.....	Los Angeles
*John Ruskin Holt.....	Santa Barbara
Henrica Iliohan.....	Oakland
Arthur Alexander Johnson.....	Antigo, Wisconsin
*Masae Kitagawa.....	San Francisco
Catherine Mary Laughren.....	Los Angeles
Mahlon Levis.....	Kingsburg
*Eugene Clair Lloyd.....	Oakland
Hale Harper Luff.....	Berkeley
Averill George McAlpine.....	Berkeley
Leigh Emerson Martin.....	Berkeley
Florence Alberta Miller.....	Ingomar
Romeo Adolph Mini.....	Vallejo
Alice Elizabeth Mundorf.....	Sonora
Hester Florence Myers.....	Berkeley
*Donald Hardy Packer.....	Glendale
Bertram Pierre Puckett.....	Berkeley
Selwyn Jackson Sharp.....	Santa Ana
Fred Eugene Starr.....	Oakland
Ian Maclaren Strange.....	Lodi
*Harold Bertram Symes.....	Berkeley
Lorraine Christine Theisen.....	San Francisco
Kiyoshi Togasaki.....	San Francisco
Donald Lewis Tupper.....	Fresno
Katherine Delilah Ward.....	St. Louis, Missouri
Michael M. Zarchin.....	San Francisco
Henry James Zimmerman.....	San Francisco

College of Mechanics

The Degree of Bachelor of Science upon

Milton Leroy Almquist.....	Atwater
Edward McKean Atchison.....	Berkeley
Orville Dwight Baldwin.....	Cloverdale
William Henry Beaty.....	Ilwaco, Washington
Laurence Cleveland Blanchard.....	National City
Louis Fink Boerner.....	Atascadero
Bradley Belknap Brown.....	San Francisco
John Louis Cooley.....	Cloverdale
A.B. 1918.	
William Gardner Corey.....	La Jolla
Copeland Victor Dorsey.....	Grass Valley
Gustav Dresel.....	Sonoma
Sadasuke Fukai.....	San Francisco
Gardner Cobb Goldthwaite.....	Alameda
Russell Hamilton Green.....	San Francisco
*Herman Grondorf.....	Ukiah
Earl Bond Hansen.....	San Bernardino
*Hugh Nathan Herrick.....	Grants Pass, Oregon
Hugo Ferdinand Holm.....	Atwater, Minnesota
*Leonard Truman Jenkins.....	Tehachapi
Charles Hope Kendig.....	Los Angeles
A.B. 1919.	
Harold W. Kidwell.....	Berkeley
Carl King.....	Seattle, Washington
A.B. 1918.	
Clinton Samuel King.....	Hayward
*Howard Theodore Livingston.....	San Francisco
Cheng-Yau Lo.....	Haimen, China
Will Lyons.....	Goldfield, Nevada
Chester Blume McAllister.....	Richmond
Manning Mayfield McIntire.....	Lakeport
Harry Barthold Meyer.....	San Francisco
Raymond Henry Muentert.....	Berkeley
Leslie Scott Nelson.....	Redlands
Donald S. Noyes.....	San Francisco
Edgar Clinton Persell.....	Berkeley
A.B. 1919.	
Jackson Hard Pressley.....	Berkeley
*Thompson Price.....	Berkeley
Charles Wiles Robbins.....	Berkeley

Charles Albert Robertson.....	Oakland
Teo Le Conte Rosenberg.....	Healdsburg
George Burbidge Scheer.....	Berkeley
Edward Vernon Tenney.....	Berkeley
A.B. 1919.	
Elmer Oluf Thompson.....	Berkeley
Trueman A. Wood.....	Madera
Edward Tyson Woodruff.....	Redlands
Harold Alger Wulff.....	Sacramento

College of Mining

The Degree of Bachelor of Science upon

Vito A. Brussolo.....	San Francisco
Sherman Roland Burdick.....	Big Pine
Laurence Glenn Christie.....	Piedmont
Donald Bennallack Collins.....	Berkeley
Joseph Tenison Deane.....	San Francisco
Samuel Grinsfelder.....	Spokane, Washington
Carlton D. Hulin.....	Alameda
Carl Thompson Long.....	Santa Monica
Glen Thomas O'Brien.....	Oakland
Frank Elisha O'Neill.....	Fort Winfield Scott
A.B. (Richmond College) 1915.	
Hubert Leonard Pascoe.....	Salt Lake City, Utah
Marcus C. Peterson.....	Suisun
*John Almond Richards.....	Treadwell, Alaska
Ferdinand George Trescher.....	Berkeley
Harold Snook Williams.....	Berkeley

A.B. 1919.	
Whitney Braymer Wright.....	Camden, New Jersey
A.B. 1919.	

Medical School

The Degree of Bachelor of Science (Curriculum for Nurses) upon

Elizabeth Burket.....	Berkeley
Marjorie Louise Davidson.....	Alhambra
Madeline Farrington Keith.....	Oakland
Anne Harriet Kelsey.....	Berkeley
Mary Abigail McCleary.....	Lodi

College of Letters and Science

The Degree of Bachelor of Arts upon

Mary Knowles Adams.....	Piedmont
*Herbert Charles Adler.....	Los Angeles
*Margaret Mary Ahern.....	San Francisco
Clarence Nathaniel Ahlem.....	Turlock
Mildred Melvina Ahlem.....	Turlock
John Frederick Aicher.....	Harvey, Illinois
John William Hilary Aicher.....	Hollywood
Stella Ajamian.....	Selma
Camille Albee.....	Weed
Helen Thompson Alexander.....	Hollywood
June Isabel Alexander.....	Berkeley
Edith May Allen.....	Burbank
John Joseph Allen, Jr.....	Oakland
*Mary Ware Allen.....	Bonita
Cresantia Mae Altman.....	Oakland
Estelle A. Altschul.....	Duluth, Minnesota
*Doris Smith Anderson.....	Oakland
Harry O. Anderson.....	Oakland
Norman Horatio Angell.....	Soquel
Gretchen Walberga Appel.....	Emmett, Idaho
Grace Hollands Arlett.....	Oakland
*James Irvine Armstrong.....	Salinas
Landis J. Arnold.....	Colorado Springs, Colorado
Ralph Wesley Arnot.....	Placerville
Katherine Aronson.....	San Francisco
*Gaston Bolado Ashe.....	San Francisco
*George Atcheson, Jr.....	Denver, Colorado
Evelyn Berg Aylesworth.....	Oakland
Paul Fuller Bacheller.....	New York, N. Y.
Ralph Fred Bagley.....	Berkeley
*Alwyn John Baker.....	Redding
*Guy Earlcourt Baker.....	Long Beach
*Hiram Rufus Baker.....	Redding
Arvilla Ball.....	Santa Ana
*John Knox Ballantine.....	Los Angeles
Edna Catherine Banks.....	Sacramento
Mary Esley Banks.....	Lawrence, Kansas
*George Hugh Banning.....	Los Angeles

A. E. Baraker.....	Kamenetz-Podolsk, Russia
Eleanor Barnard.....	Berkeley
Helen Maine Barnett.....	San Francisco
Peter Barnett.....	Calexico
*Martha Alvina Barth.....	San Francisco
Nellie A. Bartlett.....	Laton
Roy Maurice Bauer.....	Napa
*Max Carlton Baugh.....	Corning
Elizabeth Beall.....	Oakland
Hazel Gladys Bean.....	Santa Barbara
*Flora Ruth Beaty.....	Claremont
Elizabeth Beatrice Beck.....	Chicago, Illinois
Margaret Dorthy Beck.....	Berkeley
*Gladys Evelyn Beeman.....	Tuolumne
Russell W. Beeson.....	Warren, Ohio
Otho Moring Behr.....	Pasadena
Andrew Bellanca.....	San Francisco
Gladys Berta Bendure.....	Durango, Colorado
Eva Gael Benedict.....	Lodi
Madeleine Macy Benedict.....	Pleasanton
Dorothy Reeder Benyas.....	Philadelphia, Pennsylvania
Gertrude Blanche Bernard.....	Bishop
Gervais Lee Berrey.....	Berkeley
*Cesar Jordan Bertheau.....	San Francisco
*Alma Caroline Berude.....	Berkeley
*George Alfred Betts.....	Los Angeles
Katherine Huntington Betts.....	Los Angeles
*Albert George Biehl.....	Berkeley
Clare Edward Bird.....	La Jolla
Edna R. Bishop.....	Oakland
Mabelle Ernestine Bishop.....	Helena, Montana
Ruby Isabelle Bishop.....	Fort Bragg
Marion Alice Black.....	San Francisco
Edward Blair.....	Marshfield, Oregon
Beatrice Blanchard.....	San Francisco
*Jay Irvin Blayney.....	Berkeley
Faith Gladys Boardman.....	Riverside
Constance A. Boesken.....	San Francisco
Amalia Caroline Boettler.....	St. Louis, Missouri
*Clarence Carl Bohnhoff.....	Los Angeles
*Jessie Caroline Boies.....	Berkeley
Frances Latham Bolton.....	Berkeley

Marjorie Mae Bonner.....	Berkeley
Allen Rudolf Bonorden.....	San Francisco
Horatio A. Borders.....	Chicago, Illinois
Leroy Jay Bowman.....	Missoula, Montana
George Winn Boyd.....	San Jose
*Grace Thelma Brackett.....	San Diego
William Magnus Braun.....	Napa
Margaret Breedlove.....	Oakland
Gus Adolf Brelín, Jr.....	San Diego
Alfred Fisher Breslau.....	San Francisco
Florence Adele Bridge.....	Los Angeles
*Helen Naylor Brier.....	Los Angeles
Ruby Brite.....	Bakersfield
*Helen Britton.....	Los Angeles
Edla Esther Broman.....	Berkeley
*Clara Helen Brooks.....	Los Angeles
Phyllis Brown.....	Santa Rosa
*Edwin Chalmers Browne.....	Boulder Creek
*Ernest Walfred Brundin.....	Corona, New York
Mary P. Brusher.....	Oakland
Ruth Maxine Buckland.....	San Francisco
Jean Budge.....	Medford, Oregon
John D. Bullock.....	Fort Atkinson, Wisconsin
Mildred Ethel Burchell.....	Le Grand
Eleanor Louise Burdorf.....	Fullerton
Helen Burke.....	San Diego
Le Roy Cagwin Bush.....	Honolulu, T. H.
Lauretta Butler.....	Bisbee, Arizona
Hildreth Mosher Caldwell.....	Berkeley
Arthur Forrest Camp.....	Rivera
Douglass Argyle Campbell.....	Oakland
Edith Campbell.....	Fullerton
Nancy Esther Cardwell.....	Chowchilla
Carl Victor Carlson.....	Riverside
*Emil Joseph Carlson.....	Fresno
Elizabeth Wood Carnahan.....	Pasadena
*Alvin Howard Carson.....	Modesto
Frances Marie Carter.....	Monrovia
Erdy Beatrice Caudle.....	Exeter
Narcissa Mary Cerini.....	Oakland
Elwyn Whitman Chambers.....	Oakland
*Shau Min Chang.....	Hong Kong, China

Ruth Brown Chatfield.....	Biggs
Vera Mae Chatfield.....	Biggs
Marjorie Alice Cheese.....	Fillmore
St. Clair Garnett Cheney.....	San Francisco
Marcella Elizabeth Chivers.....	Hollywood
Nalini Ranjan Choudhury.....	Berkeley
Aileen Dean Christensen.....	Salt Lake City, Utah
*Randolph Arthur Christie.....	Petaluma
Helen Louise Clair.....	Portland, Oregon
*Charles Lester Clark.....	Santa Rosa
*George Williams Clark.....	Los Angeles
Karl Barber Clark.....	El Cajon
Lenora Clark.....	Arroyo Grande
*Morris Richard Clark.....	Berkeley
William Harold Clark.....	El Cajon
*Fuller Clarkson.....	Berkeley
Esther Elizabeth Claybaugh.....	Seattle, Washington
Alice Mae Cleaveland.....	Concord
Catharine Clement.....	St. Helena
Dorothy Cloud.....	Los Angeles
Gladys L. Coblentz.....	Lodi
*Leonard A. Coburn.....	Visalia
Winnifred Eggleston Coen.....	Los Angeles
*Aron H. Cohan.....	Harbin, Manchuria
Mamie B. Cohen.....	Los Angeles
Esther May Coles.....	Newman
*Marie Louise Connelly.....	Pueblo, Colorado
Helen Elizabeth Cook.....	Butler, Missouri
*John Elliott Cook.....	Berkeley
Kathryn Cook.....	Berkeley
*Marjorie Helen Cook.....	Ventura
Virginia Cook.....	Oakland
Ruth Estelle Cooper.....	Berkeley
Homer Henry Cornick.....	Alameda
*Mildred Gwin Corrick.....	Fresno
Raymond Winter Cortelyou.....	Berkeley
Theresa Alicia Costa.....	Richmond
*John Wesley Coulter.....	Berkeley
Stella Jane Coulthurst.....	Whittier
*Hilda Noble Cowan.....	San Francisco
Catharine Virginia Cox.....	Berkeley
Dorothy Alice Cox.....	Oakland

*Warren N. Craddock.....	Redding
Irma Amelia Craig.....	Riverside
*Chester Seymour Crittenden.....	Santa Barbara
Emilie Isadore Crockett.....	Chula Vista
*Theo Helsel Crook.....	Beaumont, Texas
Fred Milton Cross.....	Los Angeles
Homer Daniel Crotty.....	Oakland
Mabel Ester Hagberg Cruse.....	Los Angeles
*Anna M. Cryder.....	Tyrone, Pennsylvania
Ethel Olive Culvyhouse.....	Berkeley
*Evaline Gulick Cutler.....	Los Angeles
Grace Antoinette Cutting.....	Riverside
John Peter Daley.....	Gilroy
Helen Davidson.....	Cotati
Alice Davis.....	Oakland, Oregon
*Bert Byron Davis.....	Berkeley
Wendell Chester Day.....	Loomis
Edmund Frank de Freitas.....	Oakland
Richard Tompkins de Garnett.....	Oakland
*Margaret Navarre de Graff.....	Ann Arbor, Michigan
Henry Lito Deimel, Jr.....	San Francisco
Mary Valerie de Kay.....	Berkeley
Octavia Dell De Lap.....	Klamath Falls, Oregon
Russell Guerne de Lappe.....	Modesto
Irma Delius.....	Berkeley
Donald Eugene Dement.....	San Diego
Rachel L. De Nick.....	Los Angeles
*Adelbert Devaul.....	Paisley, Oregon
*Olive Devenish.....	Calgary, Alberta, Canada
*Margaret MacDonald Dewar.....	Millbrae
*Paul De Pauw Dexter.....	Fresno
Isabel May De Young.....	Lodi
Marion Carson Dickhaut.....	Jenny Lind
Stanley Ray Dickover.....	Santa Barbara
Eleanor Dickson.....	Loleta
Elma Dilg.....	Pomona
*Elsie Adelaide Dingley.....	Oakland
Kathryn Laura Dingley.....	Oakland
Nadine Guerne Donovan.....	Santa Rosa
Esther Beaumont Doolittle.....	Meriden, Connecticut
Mary Adelaide Dougherty.....	Los Angeles
Elmire A. Dowdell.....	San Francisco

George W. Downing, Jr.	Los Angeles
*Dorothy Doyle	Berkeley
Alice Virginia Dreiske	Hollywood
Bertha Judith Dubovsky	Oakland
Max Dunievitz	Denver, Colorado
*Dorothy Dyar	Washington, D. C.
*Leonard Roland Dykes	Los Angeles
*Benita Gertrude Eadie	San Diego
*Maybell Stone Eager	Fairfield
Evelyn Jessie Easton	San Francisco
*Marguerite Ella Eastwood	Oakland
Fred A. Ebert	Los Angeles
*Elmo Cartwright Eby	Sacramento
Philips J. Edson	Los Angeles
Charles Stockton Edwards	Los Angeles
Paul Duncan Edwards	Visalia
Howard Coit Ellis	Oakland
*John Whitney Elmore	Santa Rosa
Alberta Elms	Los Angeles
Mark Carter Elworthy	Concord
Claude Edgar Emery	Victoria, British Columbia
William Valentine Emery	Watsonville
Uriah Engelman	Jaffa, Palestine
Gertrude Elizabeth Engle	Ashland, Oregon
Agnes Marion English	Greeley, Colorado
Emma Enos	Elk Grove
*Adeline Lillian Erickson	Turlock
Fridtjof Carl Erickson	Oakland
Joseph Ratcliff Evans	Sierra Madre
Margaret Carlisle Evans	Helena, Montana
Robert Montgomery Evans	Long Beach
Edward Willard Everett	Nevada City
*Sepha Pischel Evers	San Francisco
Hilda Shaw Fairbanks	Fresno
Raymond Forrest Farwell	Seattle, Washington
Max Felix	Pasadena
John Herman Fenton	Sacramento
*Marie C. Fischer	Spokane, Washington
Edna Marie Fisher	Attica, Indiana
Zora Laura Fitinghoff	San Jose
Gerald John Fitzgerald	Grass Valley
Mary Geraldine Fitzgerald	San Luis Obispo

Fred William Flodberg.....	Lakeport
Marion Fly.....	San Francisco
Zula Myrtle Follett.....	Tuolumne
Alonzo Bascomb Forbush.....	Santa Barbara
*Margaret Forsyth.....	Santa Rosa
Emma Viola Foster.....	Pasadena
Alice Marie Fowler.....	Los Angeles
Ray Fox.....	Glenn
Eulah Beatrice Franklin.....	Eldon, Missouri
Estelle Floy Franks.....	Los Angeles
Harold Eugene Fraser.....	Oakland
Sydney E. Fraser.....	Berkeley
May Margaret Freitas.....	San Francisco
Ernest Merville Frellson.....	Healdsburg
Adolph L. Friedenthal.....	Portland, Oregon
*Merle Arthur Frost, Jr.....	San Diego
Renée Camille Gable.....	San Francisco
*Ellen Margaret Gall.....	Berkeley
Catherine Alice Gallagher.....	San Francisco
*Marjorie Gallegos.....	San Francisco
*Alice Laura Galt.....	Shenandoah, Iowa
Vera Helen Gardiner.....	San Francisco
*Helen Josephine Geary.....	Santa Rosa
Leona Geiermann.....	Altadena
*Elizabeth Mary George.....	Los Angeles
Donald Cameron Gibson.....	San Leandro
Maurice Embry Gibson.....	Los Angeles
*Berry Gilcrease.....	Lemoore
Leroy Monroe Gimbal.....	Oakland
Annette Genevieve Girard.....	San Luis Obispo
*Mark Albert Glaser.....	San Francisco
Abe Glickman.....	Oakland
Virginia Gohn.....	Alameda
Beatrice Doris Goldman.....	Los Angeles
*George Edwin Goodall.....	San Francisco
Ralph Evander Goodsell.....	Berkeley
Rose Victoria Goong.....	San Francisco
Lena May Gordon.....	Berkeley
Nicholas Gottlieb.....	San Francisco
*Harriet Sheafe Gould.....	Los Angeles
Hervey King Graham.....	Berkeley
Charles Hayden Grant.....	Cloverdale

Lloyd Erwin Graybiel.....	Chico
Agnes Raber Green.....	San Jose
Donald Munson Gregory.....	Berkeley
Florence B. Gregory.....	Bloomington, Illinois
*Enid Sydney Griffith.....	Penryn
Lois Hendren Grove.....	Willits
Margaret Susan Guilford.....	Orland
Mervyn Gunzendorfer.....	San Francisco
Esther Luella Guthrie.....	Oakland
Kathryn Johnston Guy.....	Oakland
Kathleen Hacker.....	Santa Monica
*Vera Eliot Hackh.....	Sacramento
Grace A. Hadley.....	Grinnell, Iowa
*William Martin Haesey.....	Tulare
Emily Moore Haines.....	Santa Barbara
Elah Hale.....	San Francisco
Samuel Hamburg.....	San Francisco
Julia Thomas Hamilton.....	Philadelphia, Pennsylvania
Laurentine Seaver Hamilton.....	Oakland
George Peter Hammond.....	Caruthers
Herman Julius Hanna.....	Nashville, Tennessee
*George Emmanuel Hanson.....	Redley
Ruth Crane Hardison.....	Santa Paula
Cecilia Hardman.....	San Francisco
Iola Hardy.....	Oakland
*Ruth Alden Hardy.....	San Francisco
*Frank Foli Hargear.....	Berkeley
*Jessie Anne Harper.....	Los Angeles
Clara Morton Harrell.....	Pasadena
Mary Lucile Harrington.....	Sioux City, Iowa
Phyllis Modjeska Harrington.....	Los Angeles
Marion Harris.....	Ione
*Andrew T. Hass.....	Oakland
*Wendell Marius Hauch.....	Alameda
Allan Hauser.....	Berkeley
*Evelyn Mildred Havill.....	Berkeley
Hazel Katherine Hawkins.....	Albuquerque, New Mexico
Tennie Hawkins.....	Ione
Loverne Hays.....	Clovis
*Gabrielle Marguerite Heggie.....	Sonoma
Isaias W. Hellman, III.....	San Francisco
Walter Hemmerling.....	Anaheim

Rita Barnard Henderson.....	Butte, Montana
Walter August Hersch.....	Watsonville
Blanche Hess.....	Riverside
*Melville Anderson Hester.....	Santa Barbara
Anna Knudsen Hicks.....	Santa Barbara
*Lawrence Daniel Higgins.....	Denver, Colorado
*Margaret Adel Higman.....	Redlands
*Alexander Blake Hill, Jr.....	Petaluma
Hilda Hill.....	Huntington Beach
Rollin C. Hill.....	Lindsay
*Pauline Marion Hillerman.....	San Diego
Jessie Jane Hillman.....	Lincoln, Nebraska
George Spencer Hinsdale.....	Hollywood
Mervil Hiscox.....	Berkeley
Helen Elizabeth Hobart.....	Sacramento
Mabel Henrietta Hobert.....	Oakland
*Pauline Hodgson.....	San Francisco
*Ira John Hoffman.....	Riverside
*Walter Hoffman.....	Stege
Rowena Dishman Hoffmann.....	Los Angeles
Mildred Hollis.....	Berkeley
Esther Karleene Holman.....	Oakland
*Paul Harold Holsinger.....	San Anselmo
Edna Mae Hopkins.....	Redondo Beach
Robert James Hopkins.....	Eagle Rock City
Albert J. R. Houston.....	Palo Alto
Eleanor Mary Howard.....	Des Moines, Iowa
Placie Margaret Howard.....	Sacramento
*Merriam Joseph Howells.....	Berkeley
Jean Huddleston.....	Berkeley
Ruth Evelyn Hudson.....	Los Angeles
Lauretta Huffaker.....	Oakland
*Ruth Scott Huffman.....	Lodi
Arthur John Hughes.....	Berkeley
Constance Harriet Hughes.....	Visalia
William Crutcher Huntley.....	East Auburn
Alan Thomas Hurd.....	Escondido
Charles Edward Hussey.....	Berkeley
Bernice Hutchison.....	Fresno
Orra Crosby Hyde, II.....	Oakland
*Selena Pope Ingram.....	Los Angeles
William Stuart Ingram.....	Venice

Reuben John Irvin.....	Angels Camp
Winona Estella Isaac.....	Corning
*Juzaburo Ishii.....	Los Angeles
Lillie Isom.....	Crows Landing
Doris Claire Jacobs.....	Berkeley
Margarita A. James.....	Alameda
*Clarence Arthur Jenks.....	Berkeley
Elizabeth May Jenks.....	Berkeley
Frances Manila Jessen.....	Anderson
Helen Glendora Jewett.....	Eureka
Carl Benjamin Johnson.....	Salinas
Gerald Reid Johnson.....	Sacramento
Keplar Barth Johnson.....	Berkeley
Genevieve Emily May Johnston.....	Los Angeles
Sara June Johnston.....	Los Angeles
Allison Ware Jones.....	San Rafael
Evan Merlin Jones.....	Sacramento
Shirley Lynette Jones.....	Santa Paula
Adriana Jongeneel.....	San Rafael
Kwong Shue Jue.....	Los Angeles
Elsie Andrine Juliuson.....	Los Angeles
*Helmi Kaatrakoski.....	Helsingfors, Finland
Thelma Lurline Kahn.....	Wichita Falls, Texas
Edythe Selling Katten.....	San Francisco
*Benjamin Shinobu Kawasaki.....	Fresno
Helen Anna Kearney.....	Berkeley
Elfreda Emilie Kellogg.....	San Francisco
Paul Brendan Kelly.....	Bakersfield
Margaret Lucille Kemp.....	Los Angeles
*Warren Runyon Kemper.....	San Luis Obispo
Constance Gerrie Kendall.....	Los Angeles
Helen Kielsen.....	Boise, Idaho
Frederick William Kiessig.....	Berkeley
May Charlotte Kimball.....	Tonopah, Nevada
Ruth Kinell.....	Berkeley
Eleanor Maude King.....	Sacramento
Harriet Josephine Kinley.....	Denver, Colorado
*Harris Crozer Kirk.....	Berkeley
Harry Knopf.....	Oakland
Howard Knowles.....	Macomb, Illinois
Naomi Knowlton.....	Coquille, Oregon
Thurston Pendroy Knudson.....	Los Angeles

*Anna Krause.....	Los Angeles
*Hilda J. Krotozyner.....	San Francisco
*Leof Mills Kunsman.....	Los Gatos
Gertrude Dorothy Lachman.....	San Francisco
*Lilly Lang.....	Remsen, Iowa
*Malin Thomas Langstroth.....	Oakland
C. M. Beatrice Lantz.....	Sunnyside, Washington
*Anita Mary Lassen.....	Oakland
Bertha Latimer.....	Berkeley
Theodore Carey Lawson.....	Los Angeles
Marjorie Wentworth Leach.....	Oakland
*Martha Helena Leader.....	Portland, Oregon
Sarah Docfon Lee.....	Oakland
Kathryn Le Hane.....	Modesto
Ruth Le Hane.....	Modesto
Moreland Leithold.....	Woodland
Madelyn G. Lenahan.....	Suisun
Thomas Joseph Lennon.....	San Francisco
Eugenie Andruss Leonard.....	Seattle, Washington
*Melville Morris Levy.....	Stockton
Helen-Virginia Limbaugh.....	Lodi
*Allan Peter Lindsay.....	Milford
Avery Wanda Lindsey.....	Lindsay
Mildred Little.....	Los Angeles
*Alvin A. Lobree.....	San Francisco
Leon Davidson Lockwood.....	Rialto
Frances Maria Loeber.....	Monterey
Miriam Riddell Lord.....	Eureka
Anita Evaline Lormer.....	Pasadena
Duke Allen Lovell.....	San Diego
Meta Maria Ludewig.....	Richmond
Lucile K. Lyon.....	Oakland
Ruth Hollis Lyon.....	Berkeley
Elliott McAllister, Jr.....	San Mateo
*Merwyn L. McCabe.....	Berkeley
Eva Howard MacClatchie.....	Hollywood
Ferne McCleery.....	Los Angeles
Alicia Josephine McCone.....	Los Angeles
Irene Doris McCullough.....	Sacramento
Ernest Mansen MacDonald.....	Berkeley
Thaddeus Wallace McFadden.....	San Francisco
Margery McGill.....	La Mirada
Ruth Mary McGinty.....	Berkeley

Helen Roberta MacGregor.....	Oakland
Katherine Ann McIntosh.....	Spokane, Washington
Etta Louise MacIntyre.....	Los Angeles
Anna B. Mackinlay.....	Santa Barbara
*John B. Mackinlay.....	Santa Barbara
Mildred Margaret MacKnight.....	Berkeley
Margaret McLaughlin.....	La Jolla
Lucile Rossanna McLean.....	Exeter
Wanda Merle McMeen.....	Denver, Colorado
Elizabeth Julia McMullin.....	San Francisco
*Hazel Farnsworth MacNair.....	Redlands
Helen Mae Macpherson.....	San Diego
Andrew John Mains, Jr.....	San Francisco
Frances Virginia Mains.....	Berkeley
Mildred Mallon.....	Alameda
*Katharine Dorenda Maltby.....	Concord
Henry Benedict Maltinesco.....	Los Angeles
Laura Claire Manetta.....	Fruitvale
Joseph Secondo Manildi.....	Santa Cruz
Ethel Marie Manning.....	Colorado Springs, Colorado
*Catharine Frances Manny.....	San Francisco
*Paul Marhenke.....	Pasadena
Stephen Gum Mark.....	San Rafael
*Rachel Catherine Markley.....	Fresno
Miriam D. Marks.....	Berkeley
Paul Lindsay Marks.....	San Francisco
Lorraine Marie Martin.....	San Francisco
Vibella Martin.....	Oakland
Edith M. Maslin.....	Berkeley
*Aileen Patricia Mason.....	Berkeley
Albert Burton Mason.....	Exeter
*Philip Strong Mathews.....	Berkeley
William W. Mathews.....	Los Angeles
*Shutaro Matsushita.....	Los Angeles
Edgar Mayo.....	Sacramento
*Merton Melville Maze.....	Modesto
Willard Colby Mellin.....	Vallejo
Lorene Mellon.....	Oakland
Gertrude A. H. Memmler.....	Monrovia
Pauline Louise Mercer.....	Oakland
*Nathan Merenbach.....	San Francisco
Sumner Needham Mering.....	Sacramento

Lawrence Campbell Merriam.....	Berkeley
Ruby Bernice Merritt.....	Petaluma
Lula P. Merry.....	Ceres
Kenneth McCausland Metcalf.....	Los Angeles
Mildred Metzner.....	San Francisco
Annette Jean Meyer.....	Antioch
George Harold Meyer.....	Alameda
*Wilson Meyer.....	San Francisco
Ella Arline Michael.....	East Auburn
Ida M. Michelbacher.....	Riverside
Charles Miles.....	Berkeley
Mary Elizabeth Millard.....	Vancouver Island, B. C.
Maude Lovell Millard.....	San Francisco
Madalyn Miller.....	Berkeley
Helen Margaret Mitchell.....	Phoenix, Arizona
Myrtle Mitchell.....	Berkeley
Virginia Mix.....	Elk Grove
Paul Mohr.....	San Francisco
Martha L. Moll.....	Hollywood
Richard E. Molony.....	Los Angeles
Walter Monk.....	Vermillion, South Dakota
Margaret Monroe.....	San Francisco
Curtis Hall Montgomery.....	Oakland
Melville Laurence Montgomery.....	Simi
Alberto Octavio Montijo.....	Berkeley
Elma Irene Moody.....	Laton
Walter Leland Moody.....	Santa Monica
Lena Belle Moon.....	Los Angeles
William Tyrrell Mooney.....	Oakland
George William Moore, Jr.....	Bandon, Oregon
*Edward Alexander Morgan.....	Berkeley
Frank Albert Morgan, Jr.....	Sonora
James G. Morgan.....	San Bernardino
Margaret E. Morgan.....	Auburn
Ramona Frances Morgan.....	Honolulu, T. H.
Grace Leonore Morris.....	San Francisco
Richard Herman Morris.....	Venice
Lewis Francis Morrison.....	San Francisco
*Harold Abner Morse.....	Oakland
Vera Frances Morse.....	Berkeley
Cecil Mosbacher.....	Berkeley
*Florence Emma Moses.....	Oakland

Thelma Laura Moss.....	San Diego
Gerville Mott.....	Oakland
Helen Trowbridge Munn.....	San Francisco
*Dorothy V. Munro.....	Berkeley
*Ethel Mary Murphy.....	Modesto
Gladys E. Murphy.....	Napa
*William Storey Nash.....	Alameda
Helen Kathryn Nathan.....	Sacramento
Anita H. Nathanson.....	Santa Rosa
Forest Underwood Naylor.....	Springfield, Missouri
Andrew McNally Neff.....	Altadena
Bessie E. Nelson.....	Riverside
Cyril Barton Nelson.....	Woodland
*Sarah Sword Newell.....	New Castle, Pennsylvania
*Elinor Boyle Nichols.....	Butte, Montana
Edward August Nickel.....	Berkeley
Helga Marie Nielsen.....	Hayward
Walter T. Nilson.....	Oakland
Muriel Genevieve Noakes.....	San Jose
George James O'Brien.....	Berkeley
*Lester Ray Ogden.....	Oakland
Mildred H. Olanié.....	Oakland
Frederick Herman Carlson Olberg.....	Irene, South Dakota
Marguerite Gregory Oliver.....	Colton
Mary Ethel Oliver.....	San Francisco
Katherine L. Oman.....	Spokane, Washington
*Catherine Mary O'Neil.....	San Francisco
Maxine Josephine Orozco.....	Berkeley
Iva Orr.....	Gazelle
Dorothy Osborne.....	Santa Barbara
Vivian Costroma Osborne.....	Houston, Texas
*Blanche Florence Otter.....	Milwaukee, Wisconsin
*George Francis Oviedo.....	San Francisco
Katharine Owers.....	Coronado Beach
Ella Packer.....	Colusa
William Guy Paden.....	San Diego
Mary Florean Caton Paiva.....	Fresno
*Tellis Papastavro.....	Salt Lake City, Utah
Josephine E. Park.....	Berkeley
*Elna Doney Parkinson.....	Salt Lake City, Utah
Sterling Clark Parr.....	Long Beach
*Charles Edward Parslow.....	Santa Ana
*Madeleine Florence Pash.....	Saratoga

Edith Edwina Pasmore.....	San Francisco
Louise Anderson Patten.....	Berkeley
Irven Paul.....	Los Angeles
*Leslie Paul.....	Alameda
*Forrest Merville Pearce.....	Oakland
Fred Owen Pearce.....	Berkeley
Doris Peoples.....	Kerman
Richard Davidson Perry.....	El Centro
*Martha Briggs Persons.....	Berkeley
Marian Powell Peterson.....	Los Angeles
Ruth Peterson.....	Turlock
*Muriel Madeline Somers Pettit.....	Santa Rosa
Louise Emma Pfister.....	Orange Cove
*J. Brayton Philbrook.....	Santa Cruz
Louis Mathew Piccirillo.....	San Francisco
Edith Alta Pickard.....	Longmont, Colorado
*Celia D. Pierson.....	San Pedro
Edward Graham Poole.....	Petaluma
Esther Laura Pooler.....	Benicia
Frances Alice Porter.....	Santa Clara
Jessie Hazel Power.....	Los Angeles
Florence Margaret Powers.....	Marshfield, Oregon
Geraldine Pratt.....	San Francisco
Ralph Edgar Pray.....	Valley City, North Dakota
*Chalmers G. Price.....	Santa Cruz
Lionel Henry Pries.....	Oakland
Herbert Rabinowitz.....	San Francisco
Katharine Mary Radcliff.....	Watsonville
Myrle Randolph.....	Azusa
Augusta Payne Rathbone.....	San Francisco
Irene Ray.....	Oakland
*Felicie Catherine Redin.....	Paris, France
*Carl A. Renz.....	Mill Valley
*Lawrence Kendall Requa.....	Piedmont
Constance Reston.....	San Francisco
Alene Margarette Reynolds.....	Oakland
*T. Eric Reynolds.....	Kent, Washington
Violet Florence Rhein.....	Santa Cruz
Celia L. Richards.....	San Jose
Henrietta Ringle.....	Hollywood
Fern La Vaun Rives.....	Salt Lake City, Utah
Edwina Robie.....	East Auburn

Elwood Joseph Robinson, Jr.....	Los Angeles
*Ronald Squire Robinson.....	Berkeley
*Webster Richard Robinson.....	Los Angeles
Vivian Alberta Robson.....	San Francisco
Isabel Rockwell.....	Glen Ridge, New Jersey
E. Frances Rodgers.....	Los Angeles
Ruth Evelyn Rogers.....	Grinnell, Iowa
George Henri Rohrbacher.....	Stockton
Ray Rohwer.....	Dixon
Pedro J. Rosa.....	Brooklyn, New York
Beatrice Leslie Roscoe.....	Morenci, Arizona
Rita Iolani Rosecrans.....	Paia, Maui, T. H.
C. Leonard Rosenberg.....	Oakland
Alice G. Rouleau.....	Oakland
Henriette Roumigi��re.....	Berkeley
*M. Paul Ruedrich.....	Berkeley
Annette Emilie Ruggles.....	San Francisco
*Christian Henry Runckel.....	Berkeley
Catherine Barclay Russell.....	Portland, Oregon
Mae Eleese Russell.....	Tacoma, Washington
Richard Joel Russell.....	Hayward
Elizabeth Jane Rutherford.....	Truckee
Zellah Margueritte Ryan.....	San Diego
Sylvia Cooper Sabin.....	Oakland
Bertha Sagen.....	Princeton
*David Germain Sala.....	Stockton
Clara Colette Sanford.....	Alhambra
*Edward Jack Savannah.....	Seattle, Washington
Adeline Marie Scandrett.....	San Francisco
Marie Augusta Schlichting.....	San Francisco
Ruth Bernice Schrag.....	Richmond
Herbert H. Schultz.....	San Francisco
Harold G. Schutt.....	Lindsay
*Amelia O. Schwalbach.....	Appleton, Wisconsin
*Flora E. Schwalbach.....	Appleton, Wisconsin
Harold Raymond Schwalenberg.....	Sacramento
Dorothy Louise Schwan.....	Oakland
Katharine Schwaner.....	Winterset, Iowa
Raymond Henri Sciobereti.....	Berkeley
Marjorie Scott.....	Berkeley
Cassius Elliott Seaman.....	Berkeley
Helen May Searls.....	Nevada City
Iotham Palmer Sedgley.....	Cloverdale

*Edward Granville Sewell.....	Santa Rosa
*Elizabeth Seymour.....	Mill Valley
Henrietta Shattuck.....	Boulder, Colorado
M. Helen Shea.....	El Cajon
Harry Clare Shepardson.....	Alameda
Winifred Sherrod.....	Berkeley
Mildred Marcelle Shields.....	Los Angeles
Jeanette Elizabeth Sholes.....	Moscow, Idaho
Frederick Jurgen Siems.....	Anaheim
Hulda Christine Siess.....	Petaluma
*Fay Siler.....	San Diego
Florenze K. Silvermane.....	Los Angeles
*Paul Raymond Simpson.....	Stevensville, Montana
Dorothy Donaldson Sims.....	Elk Grove
Ida S. Sinai.....	Stockton
Georgia Uarda Smart.....	Salt Lake City, Utah
Lorene Edna Smelser.....	Napa
Agnes Cornelia Smith.....	Los Angeles
Clarence B. Smith.....	Los Angeles
*Helen Marie Smith.....	Piedmont
*Howard Watkins Smith.....	Berkeley
*Mildred Marie Smith.....	San Francisco
*Wallace P. V. Smith.....	Kingsburg
Alfred P. Solomon.....	Oakland
*Sonnich Christian Sonnichsen.....	Berkeley
*Genevieve Spader.....	San Francisco
Beatrice Sparks.....	Los Angeles
Robert Kilburn Spaulding.....	Oakland
*Ruth Dorothy Spaulding.....	Los Angeles
*Dorothy Spence.....	Los Angeles
Eugene R. Spunn.....	San Francisco
Martha Anne Stanyan.....	San Francisco
Van Hartwell Steel.....	Oroville
*Dudley Whitney Steeves.....	Hayward
Kathleen Amanda Steeves.....	Fortuna
*Mildred Lola Stegman.....	Oakland
Jack Lorenz Stein.....	Berkeley
*Thomas Jackson Stephens.....	Madison
Herman Jastro Stern.....	Los Angeles
Donald Gordon Stewart.....	Chico
Harold Lord Stewart.....	Chico
John Archer Stewart.....	Berkeley
Katharine Lucille Stewart.....	Jerome, Idaho

Matthew Williams Stirling.....	Berkeley
Mary Emily Stockle.....	Mountain View
Walter Tyrrell Stokes.....	San Francisco
Marion Francis Strobbridge.....	Hayward
Jeannette Miriam Sudow.....	Los Angeles
Yoshiji Sugiyama.....	San Francisco
*Lillian Suydam.....	Alameda
Hoosik Joseph Sweet.....	Fresno
Reginald Edwin Sweetland.....	Hollister
Lydia Marie Swoboda.....	Arbuckle
Maude E. Swope.....	Oakland
Viola Carolyn Symmons.....	Berkeley
Alice Tanzer.....	Seattle, Washington
Erva Amsden Taylor.....	Modesto
Helen Ione Taylor.....	Long Beach
Marshall Taylor.....	Los Angeles
*Mabel Utley Teed.....	Alamogordo, New Mexico
Elizabeth Thacher.....	Ojai
Eleanor Caroline Thomas.....	Ukiah
Frances Thompson.....	Berkeley
Anna Jean Thomson.....	Gilroy
L. Laselle Thornburgh.....	Santa Barbara
Florence Elizabeth Thornton.....	Oakland
*Charles Lee Tilden, Jr.....	Alameda
*Marion Tilton.....	San Bernardino
Virginia Alice Titus.....	Los Angeles
Helen Arnoldette Tompkins.....	Sunnyvale
Katherine A. Towle.....	Berkeley
*Leonard W. Towner.....	Long Beach
Ross Gordon Tracie.....	Redding
Hazel Mildred Trapp.....	Los Angeles
Bernice Aileen Trussell.....	Sacramento
Yu Seng Tsen.....	Foochow, China
Wanda R. Tuchock.....	Pueblo, Colorado
Lilah Josephine Tunnicliffe.....	Oakland
Eleonora Marie Tyrrell.....	Berkeley
Alta Naida Ulrey.....	King City
Anita Lois Underwood.....	Berkeley
Ethel C. Urquhart.....	Eureka
Allen Ernest Van Ripper.....	Newcastle
Ferne Van Vleet.....	Fresno
Zora Belle Vaughan.....	Turlock
Morrell E. Vecki.....	San Francisco

*Leon F. Ver.....	Manila, P. I.
*Vada Viola Vernon.....	Berkeley
Aline Verrue.....	Pasadena
Weston Fay Volberg.....	Alameda
*Edward Borland von Adelung.....	Oakland
Harold Joseph von Detten.....	Stockton
*James Joseph Walder.....	Los Angeles
Myrle Zella Waldman.....	Riverside
Lois Vivian Walker.....	Berkeley
Geneve Wallace.....	Salt Lake City, Utah
Marjorie Ward.....	Santa Cruz
*Robertson Ward.....	Los Angeles
Beulah Jane Ware.....	Phoenix, Arizona
Ethel Medora Warner.....	Snohomish, Washington
*Harry Edgar Watkins.....	San Bernardino
Cynthia Atterbury Watson.....	Modesto
Elizabeth Reed Watson.....	Oakland
*La Verd Watson.....	St. George, Utah
Marian Helen Weed.....	San Gabriel
Arline Gertrude Weeks.....	Berkeley
*Dorothy Weeks.....	Berkeley
*Helen Wehe.....	Berkeley
Raymond Henry Weisbrod.....	Los Angeles
Percy Robert Welch.....	Berkeley
*Lulu Grace Wells.....	Oakland
*James Wesolo.....	Oakland
Mary Hoadley West.....	San Rafael
Helen Naomi Whisler.....	San Pablo
Edward Irving White.....	Fresno
Jack Frederick White.....	San Rafael
Margaret Nina White.....	Hermiston, Oregon
Martha Ellis White.....	Riverside
Mildred Madeline White.....	Craftonville
*Jean Marian Whitney.....	Healdsburg
*Harry Sherman Whitthorne.....	San Francisco
George Edward Wightman.....	Oakland
Harry Burton Wilcox.....	Los Angeles
May R. Wiley.....	National City
Dorothy E. Wilkinson.....	Blythe
Pauline Wilkinson.....	Berkeley
Amelia Newbury Williams.....	San Diego
Edward Albert Williams, Jr.....	Fresno
Prudence Williams.....	Malden, Massachusetts

Lorna Williamson.....	San Francisco
Alfred Brunson Willoughby.....	Berkeley
Grace Nicholl Willson.....	Oakland
*Arthur Riehl Wilson.....	Oroville
Doris Wilson.....	Ames, Iowa
Dorothy Wilson.....	Los Angeles
Edgar Forbes Wilson.....	Belvedere
*Icile Alice Wilson.....	Saratoga
John Shelby Winstead.....	Napa
*Thomas Carroll Winstead.....	Napa
Marion Marguerite Wixson.....	Oakland
Charles Dorman Woehr.....	Redlands
Kim C. Wong.....	Oakland
*George Joseph Wood.....	Tulare
Henry Allyn Wood.....	Berkeley
Pierce Works.....	Los Angeles
*Whitney Braymer Wright.....	Camden, New Jersey
Genevieve Shupe Wurzbach.....	San Francisco
*Genevieve Lucile Wyllie.....	Stockton
Thomas Fraser Young.....	Stockton
Hazel Aileen Younger.....	Woodland

Graduate Division

The Degree of Master of Science upon

- Bruner Moore Burchfiel Chemistry Berkeley
 A.B. (Southwestern College) 1918.
Thesis: The conductivity of pure ethyl alcohol.
- Curtis Paul Clausen Entomology Ontario
 B.S. 1914.
Thesis: *Pseudococcus maritimus* and its parasites in California.
- Daryl Dean Davis Electrical Engineering Berkeley
 B.S. 1919.
Thesis: Characteristics of secondary distribution networks.
- Karl Richard Edlund Chemistry Fresno
 A.B. 1919.
Thesis: An attempt to prepare compounds of univalent oxygen.
- *Isaac Gutmann Irrigation San Francisco
 A.B. (Syrian Protestant College) 1910.
Thesis: Policies controlling the development of irrigation in foreign countries.
- *Tura Alice Hawk Agricultural Education Berkeley
 B.Di. (Iowa State Teachers' College) 1905; B.S. (Iowa State College) 1916.
Thesis: Agricultural extension work among women.
- Ralph Ruskin Huestis Genetics Edmonton, Alberta, Canada
 B.S. (McGill University) 1914.
Thesis: Non-disjunction in *Drosophila melanogaster*: An investigation of a variation associated with maternal age; and a substantiation of results obtained in earlier investigations.
- Maurice Loyal Huggins Chemistry Berkeley
 A.B. and B.S. 1919.
Thesis: Chemical bonds.
- Harry Ernest Jacob Plant Pathology Gahanna, Ohio
 B.S. (Ohio State University) 1918.
Thesis: Studies on pea blight.
- Alvin Edward McMahon Electrical Engineering San Francisco
 B.S. 1919.
Thesis: Transmission characteristics of electrical wave filter circuits.
- Walter Scott Malloch Genetics Napa
 B.S. 1919.
Thesis: Studies of inheritance in tobacco and maize. A. The inheritance of certain floral anomalies in *Nicotiana Tabacum*. B. Mendelian studies in *Zea mays*.
- Rufino Martinez Mechanical Engineering Manila, P. I.
 B.S. (Purdue University) 1918.
Thesis: Design of a reinforced concrete pier for Manila harbor.

- William Newton Agronomy Victoria, B. C.
 B.S. (McGill University) 1914.
Thesis: A study of the development of the potato tuber.
- William Cyrus Pomeroy Electrical Engineering Berkeley
 B.S. 1914.
Thesis: Transmission characteristics of electrical wave filter circuits.
- Carl Samuel Rohr Electrical Engineering Watsonville
 B.S. 1919.
Thesis: Characteristics of secondary distribution networks.
- Julian Francis Smith Chemistry Buffalo, N. Y.
 B.S. (University of Illinois) 1916.
Thesis: The oxidation products of carbazol.
- *Edmund Henry Twilight Viticulture Fresno
 B.S. (University of France) 1891; Ingenieur Agricole (Ecole Nationale d'Agriculture) 1894.
Thesis: Heat and time as factors in the processing and seeding of raisins.
- Blake Ragsdale Vanleer Mechanical Engineering Berkeley
 B.S. (Purdue University) 1915.
Thesis: A study of the phenomena of water hammer.
- Manuel L. Zavala Chemistry Tarapaca, Peru
 B.S. 1918.
Thesis: The destructive distillation of redwood and the recovery of phenol from redwood tar.

The Degree of Master of Arts upon

- Eleanor Christina Ahlstrom Latin Los Angeles
 A.B. (University of Redlands) 1919.
Thesis: Some peculiarities of the vocabulary of Statius in the *Silvae*.
- Gainor Wilson Aitken Latin San Leandro
 A.B. (Mills College) 1919.
Thesis: Rhetorical figures in the *Silvae* of Statius.
- Ernest Green Allen Biochemistry Upper Lake
 B.L. 1910.
Thesis: The elimination of taurin when administered to man.
- *Margaret May Alltucker Education Elk Grove
 B.L. 1914.
Thesis: The socializing function of the modern high school.
- Yajuro Amagata Mathematics Berkeley
 A.B. 1918.
Thesis: A study of the in- circum- and e- scribed spheres of a tetrahedron.

- Charles Garfield Ames** Education Berkeley
 A.B. (University of Iowa) 1910.
Thesis: An educational and vocational diagnosis of sixty-one Berkeley high school boys based upon case histories.
- *Myrtle Elizabeth Amick** History Los Angeles
 A.B. (Leland Stanford Junior University) 1908.
Thesis: Movements for the annexation of the Hawaiian Islands, 1850-1876.
- A. Lincoln Barker** Education Paso Robles
 A.B. (Olivet College) 1908.
Thesis: Education for citizenship.
- Florence Machen Bayley** History Cape Girardeau, Missouri
 A.B. (Missouri State Normal School) 1911.
Thesis: Great Britain's foreign policy, 1822-1880, as a factor in the decline of the Metternichian system.
- Doris West Bepler** History San Francisco
 A.B. 1917.
Thesis: Descriptive catalogue of materials for western history in California magazines, 1854-1890, with an introduction on the history and the character of the magazines.
- Charles Coleman Berwick** Research Medicine Berkeley
 A.B. 1917.
Thesis: The disinfection of the oral mucosa by brilliant green and crystal violet.
- Adele Johanne Bischoff** Education Berkeley
 A.B. (University of Kansas) 1916.
Thesis: Standardization of grade vocabulary tests.
- David Knuth Bjork** History Stockholm, Sweden
 A.B. 1919.
Thesis: The early history of the Methodist Church in California (1846-1854).
- Sibyl Dickinson Blakeley** History Hanford
 A.B. 1919.
Thesis: American investments in Mexican railroads, mines, and petroleum.
- Miriam Young Bonner** English Azusa
 A.B. 1919.
Thesis: A comparative study of certain flood legends, with the emphasis upon motivation.
- Arnold Angel Bowhay, Jr.** Education San Francisco
 E.M. (Colorado School of Mines) 1914.
Thesis: The teachers' salary problems of California.
- Jesse Christian Brandt** Education La Verne
 A.B. (Pomona College) 1917.
Thesis: Preparation of citizens for municipal inspectorial duty through adequate presentation of secondary school subjects.

- *Edna Lucile Breen History Berkeley
 A.B. 1918.
Thesis: The intervention of the United States in Santo Domingo since 1898.
- *Samuel Brody Biochemistry Berkeley
 A.B. 1917.
Thesis: On the distribution of the acid and alkali reserve between some constituents of blood.
- Helen Elizabeth Brown Research Medicine..... Suisun
 A.B. 1918.
Thesis: The *Bacillus influenzae*.
- Sarah Aurelia Burch English Rickreall, Oregon
 A.B. (University of Oregon) 1907.
Thesis: Notes on the development of ballad-interest in the nineteenth century.
- *Laura Laurenson Byrne History.....Mt. Washington, Maryland
 A.B. (Bryn Mawr College) 1912.
Thesis: The Federal Indian policy in Utah, 1848-1865.
- Ruth Margaret Carmichael History San Francisco
 A.B. 1919.
Thesis: Robert de Sorbon and the early history of the Sorbonne, with a translation of his *De Consciencia*.
- *Chan Chen :..... Economics Berkeley
 LL.B. (Peking Government University) 1918.
Thesis: System of taxation in the Republic of China.
- Ruth Adelaide Chrisman Graphic Art..... Redondo Beach
 A.B. 1919.
Thesis: The importance of rhythm in decorative design.
- *Stanton Arthur Coblentz English Berkeley
 A.B. 1917.
Thesis: The poetic revival in America.
- Albert Sanborn Colton Education Oakland
 B.S. 1902.
Thesis: The salary campaign for elementary schools in Alameda County.
- Alice Elizabeth Cook Political Science
 Boston, Massachusetts
 A.B. (Mount Holyoke College) 1904.
Thesis: Reorganization of state administration in Massachusetts.
- *John Wesley Cook Physics Kingsburg
 B.S. (Occidental College) 1916.
Thesis: The velocity of sound independent of the velocity of its source.
- Eleanor Nydia Corcoran Economics..... Escanaba, Michigan
 A.B. 1919.
Thesis: Teaching bookkeeping in the high school.

- *Josephine Genevieve Cuneo Spanish San Francisco
A.B. 1918.
Thesis: A discussion of the commercial and military condition of New Spain, with criticisms and measures for reform as suggested by Hipolito Villaroel in his *Enfermedades Políticas*, Volume III, 1785. Translation, with introduction, critical and explanatory notes.
- A. Edward Dart Biochemistry San Francisco
A.B. 1919.
Thesis: The determination of bile acids in bile.
- *Nelson Caryl Davis Research Medicine..... San Francisco
A.B. 1917.
Thesis: Studies in experimental liver injury and regeneration.
- Catherine Delamere Greek Berkeley
A.B. 1919.
Thesis: Divine revelation in the plays of Sophocles.
- *Granville Sinclair Delamere Pathology Berkeley
A.B. 1917.
Thesis: A study of possible effects produced upon mitochondria of the anterior horn and posterior ganglion cells in the rabbit by stimulation and nerve section.
- Efner Dwight Farrington Biochemistry El Monte
A.B. 1919.
Thesis: Phosphoric acid compounds in the blood.
- Dorothy Flint English Hollister
A.B. (Mills College) 1919.
Thesis: Professor Child's evaluation of the ballad collectors.
- Louise French Latin..... Huron, South Dakota
Ph.B. (Wooster University) 1899; A.B. (University of Michigan) 1908.
Thesis: Parallels and coincidences in Statius' *Silvae*, Book I, and Virgil's *Aeneid*.
- Helena Gamble Psychology Stockton
A.B. 1919.
Thesis: An experiment to discover to what extent ultimate skill can be predicted from preliminary practices in manipulating a machine.
- William Lawrence Gantz Economics Pomona
A.B. (Pomona College) 1918.
Thesis: Business organization of the United States in the great world war.
- *Jeannette Natalie Gay Bacteriology Berkeley
A.B. (Mills College) 1918.
Thesis: The effect of the variation of the hydrogen ion concentration on the growth of obligative anaerobes in lactose peptone broth and lactose peptone bile.
- Sidney Henry Gidoll Physiology San Francisco
A.B. 1919.
Thesis: On the relative permeability of flexor and extensor muscles.

- Jean Constance Goff** Zoology Pasadena
 A.B. 1918.
Thesis: The differential death rate of males and females in the first year of life.
- Malbone Watson Graham, Jr.** Political Science Berkeley
 A.B. 1918.
Thesis: The violation of American neutral rights by the allied governments, 1914–1917.
- Malbone Watson Graham, Sr.** Spanish Berkeley
 A.B. (Princeton University) 1889.
Thesis: Diego Saavedra Fajardo: A study of his life and works.
- Robert Floyd Gray** Education Alameda
 A.B. 1917.
Thesis: Americanization in the evening school.
- Robert Morrison Hager** Economics Claremont
 A.B. (Pomona College) 1918.
Thesis: Economic problems of the west coast of South America and their relation to the promotion of American foreign commerce.
- Charles Clarke Hall** Research Medicine... Portland, Oregon
 A.B. 1916.
Thesis: Roentgen-ray intoxication: disturbances in metabolism produced by deep massive doses of the hard Roentgen rays.
- Samuel Hanson** Anatomy San Francisco
 A.B. 1919.
Thesis: On the rapidity of absorption of colloidal metals from the peritoneal cavity.
- Aura Delphina Hardison** French Berkeley
 A.B. 1919.
Thesis: The versification of LeConte de Lisle.
- *Arthur Cobb Hardy** Physics Berkeley
 A.B. 1917.
Thesis: An experimental study of the persistence of vision.
- Lewis Bradley Hillis** Psychology Berkeley
 A.B. 1899 and M.A. 1902 (College of Emporia).
Thesis: An experiment in the use of free association in vocational guidance.
- *Josephine Hoyt** Political Science Berkeley
 A.B. 1918.
Thesis: A proposal for a representative council and controlled executive form of government for the City and County of San Francisco, with introduction charts, notes and bibliography.
- Alice May Irving** Education Wausau, Wisconsin
 B.S. (Lawrence College) 1891.
Thesis: Adult illiteracy in the United States.
- *Madeline M. Jirkowsky** French Berkeley
 A.B. 1919.
Thesis: Epithelioses infectieuses et epitheliomas.

- *Marguerite Johnson Household Science Berkeley
A.B. 1918.
Thesis: The preparation of creatinine zinc chloride and of arginine carbonate for blood analysis experiments.
- *Gwendolyn Morris Kaufman Research Medicine.....San Francisco
A.B. 1918.
Thesis: The bacteriologic analysis of the fecal flora of children, with notes on the changes produced by a carbohydrate diet.
- *Evadne Louise Keats Latin Berkeley
A.B. 1918.
Thesis: *Luxuria*; a monograph, with certain comparative passages from the Bible.
- Lucetta Kellenbarger French Nordhoff
Ph.B. (Grinnell College) 1898.
Thesis: L'élément religieux dans le sentiment de la nature chez Lamartine.
- *Ruth Carver Kingman Spanish Topeka, Kansas
A.B. (Washburn College) 1912.
Thesis: Spanish life of the sixteenth century as depicted in the picaresque novels.
- *Mary Ellen Knowles Latin Woodland
A.B. (Bates College) 1911.
Thesis: The deification of Caius Julius Caesar.
- Theodora Covell Kracaw Psychology Orland
A.B. 1919.
Thesis: A case study of ten juvenile court families, with particular emphasis on a psychological interpretation of the problems presented.
- *Elizabeth Cecelia Kravchyk History Berkeley
A.B. 1918.
Thesis: A general survey of the Mexican land question.
- *Josephine Lucienne Kravchyk History Berkeley
A.B. 1918.
Thesis: A just criticism of the *Regimiento de Intendencias* of December 4, 1786, by Hipólito Villaroel. Translation with introduction, critical and explanatory notes.
- Mildred Talitha Lanphere History Pocatello, Idaho
A.B. (Oberlin College) 1916.
Thesis: The Federal Indian policy in the old Southwest from 1788-1795.
- Lucile Hooper La Prade Anthropology Santa Barbara
A.B. 1917.
Thesis: The Cahuilla Indians.
- *Vernie Marian Litch Research Medicine.....Oakland
A.B. 1919.
Thesis: A spontaneously or naturally acquired epidemic of paratyphoid bacillus.

- *Marian Lydia Lothrop Latin West Medford, Massachusetts
A.B. (Radcliffe College) 1911.
Thesis: Preliminary study of the *Bellum Hispaniense*: based on the text of B. Kübler.
- *Betsey Thomas Lull Latin Berkeley
A.B. (Mount Holyoke College) 1902.
Thesis: Cicero's attitude towards individual Greeks as shown in his letters and orations.
- Donald Dyer Lum Biochemistry Alameda
A.B. 1919.
Thesis: Cholesterol and non-cholesterol substances in the blood giving the Lieberman-Burchard reaction.
- Dolly Cora Lutjeharms Botany Alma, Nebraska
A.B. (University of Nebraska) 1919.
Thesis: The influence of light and darkness upon the germination of tobacco seeds.
- Sophia McEntyre Education Berkeley
A.B. 1915.
Thesis: Social motivation of English literature teaching.
- Lulu E. McLaughlin English McAlester, Oklahoma
B.S. (University of Chicago) 1918.
Thesis: The personality of Henry James.
- James Morrow Malloch Education Berkeley
A.B. 1917.
Thesis: The organization of child accounting in a city school system.
- Delia Cole Martin English Los Angeles
A.B. 1919.
Thesis: Social ideals in the novels of H. G. Wells.
- *Sotaro Matsushita Political Science Oakland
A.B. 1917.
Thesis: Theory of German militarism.
- J. Worthington Means Political Science Banning
A.B. (Whittier College) 1914.
Thesis: The direct primary.
- Margaret Montague Psychology Portland, Oregon
A.B. (Vassar College) 1916.
Thesis: The reactions of dementia praecox patients to Binet, Healy form-board, and Kent-Rosanoff association tests.
- *Ethel Maude Moss Economics Berkeley
A.B. (Kansas State Normal College) 1910.
Thesis: Coöperation in California.
- Melton Vincent Mowbray, Jr. Architecture Oakland
B.S. 1913.
Thesis: The architecture of tombs and mausoleums.
- Elizabeth Theodora Neuman English Nome, Alaska
A.B. 1919.
Thesis: Blake's *French Revolution* and Carlyle's *History of the French Revolution*.

- *Irene Elwonger Newton History Berkeley
 A.B. 1919.
Thesis: The International American Conference of 1890.
- Emily Godfrey Palmer Education Berkeley
 A.B. (Colorado College) 1906.
Thesis: A survey of the garment trades in San Francisco; the making of shirts and workmen's wear.
- *Helen Papen Spanish Berkeley
 B.L. 1914.
Thesis: Spanish explorations in the interior of California, 1804-1821.
- Willard W. Patty Education Berkeley
 A.B. (Iowa State Teachers' College) 1914.
Thesis: Opportunities for vocational education in California evening high schools.
- *Pearl Pemberton Household Science Berkeley
 A.B. 1916.
Thesis: The carbohydrate content of thrice-cooked vegetables for the diabetic.
- Ruth Esther Peterson Latin Ortonville, Minnesota
 A.B. (University of Minnesota) 1911.
Thesis: Metaphors in the *Silvae* of Statius.
- Louise Margaret Ploeger Economics San Francisco
 A.B. 1919.
Thesis: Trade unionism among the women of San Francisco, 1920.
- Reba Polson History Berkeley
 B.S. (Missouri State Teachers' College) 1917.
Thesis: Anglo-Saxon monasticism from Alfred the Great to the Norman conquest.
- *Alice Popper German Walla Walla, Washington
 Austrian State Examination (Prague) 1909.
Thesis: Romantische kunstanschauung in theorie und praxis.
- Cora Powell Psychology Riverside
 A.B. 1918.
Thesis: A mental survey of the lowest three grades in one of San Francisco's most difficult elementary schools.
- Inez Dale Powelson Mathematics Berkeley
 A.B. (Vassar College) 1912.
Thesis: The history of the teaching of elementary algebra in the United States.
- *Phillip Power Education Hollister
 A.B. 1915.
Thesis: Consolidation of rural schools and transportation of pupils.
- Charles William Rees Zoology Logan, Utah
 B.S. (Utah Agricultural College) 1918.
Thesis: Micro-injection of *Paramoecia*.
- Esther English Richards Palaeontology Alcatraz Island
 A.B. 1918.
Thesis: Fossil and recent turritellidae of the Pacific Coast of North America.

- *Iola Gladys Riess English Berkeley
A.B. 1917.
Thesis: Some primitive mourning songs collected, annotated, and illustrated by a study of their content and function.
- Margaret Helen Russell Psychology Denver, Colorado
A.B. (Smith College) 1911.
Thesis: A study of the female recidivists of normal mentality in the San Francisco Juvenile Court for the period from January, 1917, to January, 1920.
- Lucy Eunice Savage Education San Diego
A.B. (Colorado College) 1916.
Thesis: The problem-project method in high school English teaching.
- Walter Schilling Psychology San Francisco
A.B. 1919.
Thesis: The effect of caffeine and acetanilid on simple reaction time.
- Lois Josepha Scott English Des Moines, Iowa
A.B. (Drake University) 1914.
Thesis: Theology in British poetry from Thomson to Burns.
- Shun Ching Siao Economics Yunsin, Kiangsi, China
LL.B. (Peking Government University) 1918.
Thesis: State financial administration of California.
- *Alice Pauline Silverman English Berkeley
A.B. 1918.
Thesis: Some aspects of the psychology of the creative imagination illustrated by a study of Shelley's *Prometheus Unbound*.
- Sydney Kinnear Smith Psychology Vallejo
A.B. 1918.
Thesis: The relation of syphilis to feeble-mindedness.
- Herman A. Spindt History Bakersfield
A.B. 1916.
Thesis: Gallatin's financial policy.
- Lucy Agnes Stanton Mathematics Los Angeles
A.B. 1919.
Thesis: On two transversals of four skew lines (coincident from intersections with a tetrahedron and a transformation).
- *Ruth Matilda Stauffer English Washington, D. C.
A.B. (Mount Holyoke College) 1906.
Thesis: Joseph Conrad: his romantic-realism.
- Carolyn Steel Chemistry Berkeley
A.B. 1918.
Thesis: Oxidation of the grignard reagent.
- George Rippey Stewart, Jr. English Pasadena
A.B. (Princeton University) 1917.
Thesis: Stevenson in California: a critical study.
- Paul Bellville Taylor Physics Berkeley
A.B. 1913.
Thesis: Determination of single potentials with reference to molten electrolytes.

- Paul Schuster Taylor Economics Sioux City, Iowa
 A.B. (University of Wisconsin) 1917.
Thesis: Chapters from the early history of the seamen of the Pacific Coast.
- Parker Davies Trask Palaeontology Oakland
 A.B. (University of Texas) 1917.
Thesis: A study of the fauna and stratigraphy of the Briones formation of middle California.
- Edith Ueland Psychology Roseburg, Oregon
 A.B. 1918.
Thesis: Experimental study of lack of muscular coördination.
- *Louise Van Camp Education Los Angeles
 A.B. (University of Nebraska) 1901.
Thesis: Range of disciplinary standards in American public schools.
- Rolland A. Vandegrift History Chico
 A.B. 1917.
Thesis: The defense of the Spanish-American colonies, 1492-1513.
- Alice Mae Weisser Political Science Oakland
 A.B. 1919.
Thesis: Egypt, 1914-1919.
- Florence Emma Whittell Psychology Los Angeles
 A.B. 1918.
Thesis: Standardization of the Yerkes multiple choice method for human adults.
- Earl Hervie Wight Economics Berkeley
 B.L. 1914.
Thesis: Industrial physical education and recreation in the San Francisco Bay cities.
- *Bing Chin Wong Mathematics Berkeley
 A.B. 1917.
Thesis: A system of equal circles intersecting in a common point.
- Margaret Swan Woodruff History San Francisco
 A.B. (Washburn College) 1912.
Thesis: The diplomatic relations of the United States and Mexico, 1876-1911.
- Nancy Yerkes History Hollywood
 A.B. 1919.
Thesis: Paris in the reign of Philip IV (The Fair).
- *Max Yulich Education Berkeley
 A.B. 1916.
Thesis: The present status of the professional training of secondary teachers in the United States.
- Florence Zander Household Art Berkeley
 A.B. 1917.
Thesis: An elementary course in millinery.

The Degree of Juris Doctor (School of Jurisprudence) upon

- Harry Clifford Allen, Jr. Pasadena
 A.B. (Harvard University) 1915.
Thesis: The situs of intangible property, especially negotiable and semi-negotiable instruments, for the purpose of taxation.
- *Stanley Morris Arndt Stockton
 B.S. 1915.
Thesis: Specific performance of crop agreements of California cooperative agricultural marketing associations.
- Bradford W. Bosley Berkeley
 A.B. 1917.
Thesis: The effect of changes in law which make performance of an executory contract impossible or illegal.
- John Quincy Brown, Jr. Sacramento
 A.B. 1918.
Thesis: Adverse possession: the requirement of hostile intent.
- Helen Virginia Davis Berkeley
 A.B. 1918.
Thesis: A review of certain cases in constitutional law and the law of torts.
- Monroe Mark Friedman Oakland
 A.B. 1916.
Thesis: The law of illegitimacy in California.
- Paul Longstreth Fussell Pasadena
 A.B. 1916.
Thesis: A criticism of recent cases in procedure and constitutional law.
- Gerald Hanna Hagar Berkeley
 A.B. (University of Michigan) 1914.
Thesis: Principles involved in recent cases in the law of contracts and wills.
- Herbert Edwin Hall Piedmont
 A.B. 1916.
Thesis: Development of legislation on public service corporations in California.
- Lloyd Nelson Hamilton Oakland
 A.B. 1916.
Thesis: A discussion of recent cases in the law of torts and wills.
- *Christian Hoover Hanlin Blythe
 A.B. (Princeton University) 1901; LL.B. (Valparaiso University) 1912; LL.M. (La Jurisprudencia) 1918.
Thesis: The legitime.
- Chester O. Hansen Selma
 A.B. 1918
Thesis: A review of certain cases in the law of corporations and equity.
- *Eugene Alston Hawkins, Jr. Los Angeles
 A.B. 1916.
Thesis: The Mineral Land Leasing Act—the adoption of a new policy of disposing of mineral lands on the public domain, with special reference to oil-bearing lands of California.

- George Herrington.....San Francisco
A.B. 1918
Thesis: A critical survey of recent decisions in admiralty.
- Harold Samuel Jacoby.....Oakland
A.B. 1917.
Thesis: Comment on recent state and federal decisions.
- Edward Moss Jaffa.....Berkeley
B.S. 1918.
Thesis: The valuation of public utilities.
- John Edward Johnson.....Benjamin, Utah
A.B. (Brigham Young University) 1916.
Thesis: Mr. Justice Holmes on the Fourteenth Amendment.
- Arthur Thornton La Prade.....Winslow, Arizona
A.B. 1917.
Thesis: The community property system as adopted and developed in Arizona.
- Reginald Heber Linforth.....Berkeley
A.B. 1916.
Thesis: The right of public utility companies to withdraw from service.
- Charlotte Favor MacGregor.....Piedmont
A.B. 1918
Thesis: A survey of recent decisions in constitutional law.
- Marshall Pierce Madison.....San Francisco
A.B. 1917.
Thesis: The Railroad Commission of the State of California: its powers and jurisdiction.
- Edwin Meese, Jr.....Oakland
A.B. 1918.
Thesis: Forfeiture of riparian rights for non-user.
- Anthony Laurence Mitchell.....Los Angeles
A.B. 1918.
Thesis: Warranties in the sale of chattels in California and changes that would be effected by the adoption of the Uniform Sales Act.
- Eugene Mitchell Prince.....Tuolumne
A.B. 1917.
Thesis: A critical review of current decisions in constitutional law.
- Bert Franklin Rabinowitz.....San Francisco
A.B. 1917.
Thesis: An analysis of certain cases in the law of evidence and constitutional law.
- Esmond Schapiro.....San Francisco
A.B. 1918.
Thesis: Discussion of recent cases in the law of corporations and conflict of laws.
- Leslie Bernard Schlingheyde.....Berkeley
A.B. 1918.
Thesis: Review of certain cases in the law of crimes and property.

John Boardman Whitton.....Oakland
 A.B. 1916.
Thesis: Child welfare laws of California.

The Degree of Doctor of Medicine (Medical School) upon

Philip Howard Arnot.....Placerville
 A.B. 1916.
 Dorothy Wells Atkinson.....Tacoma, Washington
 A.B. 1916.
 Thomas Fred Ayers.....San Francisco
 B.S. 1914.
 Arthur Elmer Belt.....Los Angeles
 A.B. 1916; M.A. 1919.
 Myron Murray Booth.....Hutchinson, Kansas
 A.B. (University of Kansas) 1917.
 Edwin Louis Bruck.....St. Helena
 A.B. 1916.
 Ruth Burr.....Sacramento
 A.B. 1915.
 Alma Locke Cooke.....Oakland
 B.S. 1911.
 Randolph Davis.....St. Mary's, Ontario, Canada
 Charles Beebe Fowler.....San Francisco
 A.B. 1916.
 Mervyn Francis Frandy.....Grass Valley
 A.B. 1916.
 Lloyd Elliott Hardgrave.....Taylorsville
 Charles Edward Locke, Jr.....Los Angeles
 A.B. 1916.
 Frederic George Maggs.....San Francisco
 Robert Carson Martin.....Portland, Oregon
 A.B. 1916.
 Belle Ellingsen Merrill.....Oakland
 Oscar Kempfer Mohs.....San Francisco
 A.B. 1916.
 Lois Pendleton.....Saratoga
 A.B. 1916.
 Alverda Elva Reische.....Meridian
 A.B. 1915.
 Bert Stanford Thomas.....San Francisco
 A.B. 1916.
 Harold Guyon Trimble.....Oakland

The Degree of Mining Engineer upon

- Earl W. Wagye Petroleum Technology.....
 B.S. 1909. Washington, D. C.
Thesis: Perforated casing and screen pipe in oil wells.

The Degree of Doctor of Philosophy upon

- Theodore Day Beckwith BacteriologyCorvallis, Oregon
 B.S. 1904 and M.S. 1907 (Hamilton College).
Thesis: Studies upon the chemotherapy of the experimental typhoid carrier condition.
- Clair Hadyn Bell German Philology, German Literature,
 PhilosophyBerkeley
 B.L. 1908; M.L. 1909.
Thesis: The sister's son in the medieval German epic.
- William Campbell Binkley HistorySanta Ana
 A.B. 1917; M.A. 1918.
Thesis: The expansionist movement in Texas, 1836-1850.
- Charles Florus Coan HistoryBerkeley
 A.B. (University of Washington) 1908; M.L. 1914.
Thesis: The federal Indian policy in the Pacific Northwest, 1849-1870.
- *Henry Homer Collins Zoology, BotanyFresno
 A.B. (Rochester Normal University) 1906; B.S. 1915; M.A. 1916.
Thesis: Studies of the pelage phases and of the nature of color variations in mice of the genus *Peromyscus*.
- *Richard Slayton French Education, Philosophy.....Berkeley
 B.L. 1906.
Thesis: The education of the blind: a critical and historical survey with special reference to the United States of America.
- *Carl Hartley Plant Pathology, Plant Physiology....
 Washington, D. C.
 A.B. 1907 and M.A. 1909 (University of Nebraska).
Thesis: Damping-off in forest nurseries.
- Hilda Hempl Heller Research Medicine.....Palo Alto
 A.B. (Stanford University) 1918; M.S. (University of Michigan) 1915.
Thesis: The etiology of acute gangrenous infections of animals: a discussion of blackleg, braxy, malignant oedema, and whale septicæmia.
- Frank Samuel Hudson Geology, Petrology.....Berkeley
 B.S. 1912.
Thesis: Geology of the Cuyamaca Region, California, with special reference to the origin of the nickeliferous pyrrhotite.
- *Ossie Garfield Jones Political Science, Economics..Berkeley
 B.S. (Ohio Wesleyan University) 1912.
Thesis: The development of self-government in the Philippine Islands since the American occupation.

- Charles Henry Kunsman Physics, Mathematics Berkeley
 B.S. (Pennsylvania State College) 1914; M.S. 1915.
Thesis: A study of the residual ionization in gases with reference to temperature effects.
- John Augustus Larson Physiology, Biochemistry Berkeley
 A.B. 1914 and M.A. 1915 (Boston University).
Thesis: Further evidence on the functional correlation of the hypophysis and thyroid.
- Sophia Hazel Levy Astronomy, Mathematics Oakland
 B.S. 1910.
Thesis: The theory of motion of the planet (175) Andromache.
- Elsie Jeannette McFarland Mathematics, Physics Pasadena
 A.B. 1917; M.A. 1918.
Thesis: On a special quartic curve.
- *John Merritt McGee Chemistry, Botany, Plant Pathology Carmel
 A.B. 1909 and M.A. 1911 (University of Washington).
Thesis: The preparation and properties of sodium amide.
- Roy Frederick Newton Chemistry, Mathematics Chicago, Illinois
 B.S. (Northwestern University) 1916.
Thesis: Equilibria in reactions of methyl alcohol with hydrochloric acid and with hydrobromic acid.
- Theodore Wilhelm Overlach Economics San Francisco
 Graduate (Schleis Gymnasium) 1907.
Thesis: Foreign financial control in China.
- Nalini Mohan Pal Economics, Philosophy Calcutta, India
 B.S. 1916; M.S. 1917.
Thesis: Some economic and social aspects of the land systems of Bengal.
- *George Sutton Parks Chemistry, Physics Seattle, Washington
 B.S. 1915 and M.S. 1916 (University of Washington).
Thesis: The specific heats of ethyl and propyl alcohols.
- Frank Herman Reinsch German Literature, German Philology, Sanskrit Lincoln, Nebraska
 A.B. 1909 and M.A. 1912 (University of Nebraska).
Thesis: Goethe's political interests.
- James Fred Rippey History Nashville, Tennessee
 A.B. (Southwestern University) 1913; M.A. (Vanderbilt University) 1915.
Thesis: The relations of the United States and Mexico, 1848-1860.
- Charles Donald Shane Astronomy, Mathematics, Physics Mt. Hamilton
 A.B. 1915.
Thesis: The spectra of certain Class N stars.
- Nicholas Lloyd Taliaferro Geology, Petrography Redlands
 B.S. 1918.
Thesis: The manganese deposits of the Sierra Nevada of California.

HONORS WITH THE BACHELOR'S DEGREE 1919-1920

IN THE COLLEGE OF AGRICULTURE

William Henry Webb Alison, Jr.	Glen Lester Hanner
Earl Murray Blair	John Franklin Osborn
Willis Rolland Senter	

IN THE COLLEGE OF CHEMISTRY

*Maurice Loyal Huggins

Highest Honors

William Francis Giauque

IN THE COLLEGES OF ENGINEERING

COLLEGE OF CIVIL ENGINEERING

Carl Williams Appleford	Thomas Russel Simpson
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COLLEGE OF MECHANICS

Milton Leroy Almquist	John Louis Cooley
Orville Dwight Baldwin	Carl King
Bradley Belknap Brown	Donald S. Noyes
Jackson Hard Pressley	

COLLEGE OF MINING

Carlton D. Hulin	Carl Thompson Long
Hubert Leonard Pascoe	

IN THE COLLEGE OF COMMERCE

Lorraine Christine Theisen

IN THE COLLEGE OF LETTERS AND SCIENCE

Anatomy

Clare Edward Bird	Theodore Carey Lawson
Edward Blair	Melville Laurence Montgomery
*George Joseph Wood	

*Honors***Architecture**

Gerald John Fitzgerald Mervyn Gunzendorfer
Lionel Henry Pries

Astronomy

Dorothy Louise Schwan
Raymond Henri Sciobereti

Bacteriology

*Mary Ware Allen

Highest Honors

Evan Merlin Jones

Biochemistry

Evelyn Jessie Easton Emma Viola Foster

Botany

Russell W. Beeson Arthur Forrest Camp

Chemistry

Roy Maurice Bauer *Clarence Arthur Jenks
Edna R. Bishop Frances Alice Porter
Robert Montgomery Evans Thomas Fraser Young

Drawing and Art

*Lilly Lang Alice G. Rouleau
Madalyn Miller Jeannette Miriam Sudow
Augusta Payne Rathbone *Harry Edgar Watkins
Dorothy E. Wilkinson

Highest Honors

Elah Hale

Economics

Ruth Estelle Cooper

English

Winnifred Eggleston Coen Bernice Hutchison
Reneé Camille Gable Helen-Virginia Limbaugh
Lorraine Marie Martin

Highest Honors

Eva Howard MacClatchie

French

Dorothy Alice Cox	Maxine Josephine Orozco
Annette Genevieve Girard	*Felicie Catherine Redin
*Evelyn Mildred Havill	Lilah Josephine Tunncliffe

Highest Honors

Henriette Roumiguere

Geography

*Florence Emma Moses

German

*Hilda J. Krotozyner

History

Theresa Alicia Costa	*Ruth Alden Hardy
Grace Antoinette Cutting	Annette Jean Meyer
Beatrice Doris Goldman	Jeannette Miriam Sudow

Home Economics

*Maybell Stone Eager

Household Art

Constance A. Boesken

Household Science

Marion Carson Dickhaut	Margaret Susan Guilford
Evelyn Jessie Easton	Iola Hardy

Jurisprudence

George W. Downing, Jr.	Mildred Mallon
Max Felix	Albert Burton Mason
Helen Roberta MacGregor	Herbert Rabinowitz
L. Laselle Thornburgh	

Latin

Nellie A. Bartlett	Lauretta Huffaker
*Ruth Alden Hardy	Irene Doris McCullough
*Pauline Marion Hillerman	Laura Claire Manetta

Highest Honors

*Grace Thelma Brackett	Nancy Esther Cardwell
Helen Trowbridge Munn	

Mathematics

Evelyn Berg Aylesworth

*Honors***Music**

Mildred Hollis

Marjorie Wentworth Leach

*Aileen Patricia Mason

Palaeontology

Richard Joel Russell

Philosophy

*Doris Smith Anderson

Helen Elizabeth Hobart

Marion Alice Black

Bernice Hutchison

Amalia Caroline Boettler

Thurston Pendroy Knudson

*Ernest Walfred Brundin

Gertrude Dorothy Lachman

William Harold Clark

*Paul Marhenke

Helen Elizabeth Cook

Helen Kathryn Nathan

*Evaline Gulick Cutler

Clarence B. Smith

Anita Lois Underwood

Physical Education for Men

*George Williams Clark

Physical Education for Women

Lenora Clark

*Pauline Hodgson

Highest Honors

Elizabeth Beall

Edith Edwina Pasmore

Physics

Edna R. Bishop

Jean Huddleston

Physiology

Esther Karleene Holman

Political Science

Harold G. Schutt

Katherine A. Towle

Public Speaking

Narcissa Mary Cerini

Gladys E. Murphy

Elizabeth May Jenks

Marjorie Ward

Spanish

*Anna Krause

Esther Laura Pooler

Jessie Hazel Power

Zoology

Edna Marie Fisher

MILITARY COMMISSIONS, 1920

UNIVERSITY CADETS

Bertram Pierre Puckett.....	Colonel
Edwin David Cooke.....	Lieutenant-Colonel
Sherman Roland Burdick.....	Major
William Valentine Emery.....	Major
Adolph Louis Friedenthal.....	Major
Arthur P. Coe.....	Major
George Thomas Moore.....	Captain
Donald Huntington Wright.....	Captain
James Lakenan Guthrie.....	Captain
Ellsworth Randal Stewart.....	Captain
Edward Peter Crossan.....	Captain
Carl Emil Hansen.....	Captain
Wallen White Maybeck.....	Captain
Shirlaw Wood Mackay.....	Captain
Tom Hunter Louttit.....	Captain
Harvey Hardison.....	Captain
James Emmons Pemberton, Jr.....	Captain
George Lawrence Wood, Jr.....	Captain
George Work Marvin.....	Captain
William Frishe Dean.....	Captain
Averill George McAlpine.....	Captain
Albert Bryan Sprott.....	Captain
Ormond Kenneth Flood.....	Captain
Laurence Graham Putnam.....	Captain
Albert Hays Busch.....	Captain
Cyril Fay Moseley.....	Lieutenant
Henry de Roulet.....	Lieutenant
Horace Terry Keeler.....	Lieutenant
Victor Harold Salsman.....	Lieutenant
Karl Leslie Engebretson.....	Lieutenant
Hallock Vander Leek.....	Lieutenant
John Wesley Otterson.....	Lieutenant
Benjamin Theodore Hudspeth.....	Lieutenant
Harold Alfred Edmondson.....	Lieutenant
Speed Smith Fry.....	Lieutenant

George Ohrt Bahrs.....	Lieutenant
Emerson W. Fisher.....	Lieutenant
Allard B. D'Heur.....	Lieutenant
Dudley Wayne Bennett.....	Lieutenant
Burl Hayden Howell.....	Lieutenant
John Glover Hatfield.....	Lieutenant
Reece Robert Clark.....	Lieutenant
John Satterwhite, Jr.....	Lieutenant
Ralph Phillips Stiehl.....	Lieutenant
Eugene Robison.....	Lieutenant
Donald George Hendrixson.....	Lieutenant
Arthur Dupuy Eggleston.....	Lieutenant
Merrill Constant Morshead.....	Lieutenant
Morris Boynton Lerner.....	Lieutenant
William McCarthy Thornton.....	Lieutenant
Samuel Lloyd Brown.....	Lieutenant
Arthur Abel Charlson.....	Lieutenant
Albert Reinholt Reinke.....	Lieutenant

AWARDS OF GRADUATE AND PROFESSIONAL SCHOLARSHIPS AND FELLOWSHIPS 1920-21

LECONTE MEMORIAL FELLOWSHIP

FOUNDED BY THE ALUMNI ASSOCIATION, IN MEMORY OF PROFESSORS
JOHN AND JOSEPH LECONTE

Arthur Pryor Watts (History).....Los Angeles
A.B. (Occidental College) 1914; M.A. 1916.

JAMES M. GOEWY FELLOWSHIP

FOUNDED BY THE FAMILY OF THE LATE JAMES M. GOEWY

Margaret Campbell Mann (Zoology).....Oakland
A.B. (University of Oregon) 1915; M.A. 1918.

UNIVERSITY FELLOWSHIPS

ESTABLISHED BY THE REGENTS OF THE UNIVERSITY

Roscoe Harlan Gerke (Chemistry).....	Urbana, Illinois
B.S. (University of Illinois) 1918.	
William Francis Giauque (Chemistry).....	Niagara Falls, Ontario
Cand. B.S. 1920.	
Margaret Trabue Hodgen (Economics).....	San Francisco
B.L. 1913.	
Henry V. Howe (Palaeontology).....	Eugene, Oregon
A.B. (University of Oregon) 1916.	
Maurice Loyal Huggins (Chemistry).....	Berkeley
A.B. and B.S. 1919; cand. M.S. 1920.	
Erik Gustaf Moberg (Zoology).....	Berkeley
B.S. (University of North Dakota) 1916.	
Richard Newman Nelson (Geology).....	Eugene, Oregon
A.B. (University of Oregon) 1919.	
Miriam Elizabeth Simpson (Anatomy).....	Sebastopol
A.B. 1915; M.A. 1916.	

MARTIN KELLOGG FELLOWSHIP IN ASTRONOMY

Charles Donald Shane.....	Mt. Hamilton
A.B. 1915; cand. Ph.D. 1920.	

LICK OBSERVATORY FELLOWSHIPS IN ASTRONOMY

Edith Cummings.....	Mt. Hamilton
A.B. 1915 and M.A. 1917 (University of Missouri).	
Priscilla Fairfield.....	Needham, Massachusetts
A.B. (Boston University) 1917.	
Hamilton Moore Jeffers.....	Berkeley
A.B. 1917.	

DU PONT FELLOWSHIP IN CHEMISTRY

GIVEN ANNUALLY BY E. I. DU PONT DE NEMOURS AND COMPANY

Dwight Cooley Bardwell.....	Salt Lake City, Utah
B.S. 1919.	

FLOOD FELLOWSHIPS IN ECONOMICS

FOUNDED BY MISS CORA JANE FLOOD

- Paul Brendan Kelly.....Bakersfield
 Cand. A.B. 1920.
 Walter James Couper.....Vancouver, B. C.
 Cand. A.B. (University of British Columbia) 1920.

**JOHN W. MACKAY, JUNIOR, FELLOWSHIPS IN ELECTRICAL
ENGINEERING**

Two vacancies.

GEORGE LADD PRIX DE PARIS IN MUSIC

FOUNDED BY THE WILL OF THE LATE MRS. ELIZABETH P. MITCHELL

- Catherine Murphy Urner.....Berkeley
 A.B. (Miami University) 1912.

NATIVE SONS FELLOWSHIPS IN PACIFIC COAST HISTORY

FOUNDED BY THE ORDER OF THE NATIVE SONS OF THE GOLDEN WEST

- Arthur Scott Aiton.....Alameda
 A.B. 1916; M.A. 1918.
 Lloyd Mecham.....San Bernardino
 A.B. 1916; M.A. 1917.

**EDITH CLAYPOLE MEMORIAL RESEARCH FELLOWSHIP IN
PATHOLOGY**

- Jeannette Natalie Gay.....Berkeley
 A.B. (Mills College) 1918; M.A. 1919.

WHITING FELLOWSHIPS IN PHYSICS

FOUNDED UNDER THE WILL OF THE LATE HAROLD WHITING

- Richard Hammer.....Pittsburgh, Pennsylvania
 B.S. 1918 and M.S. 1916 (University of Saskatchewan); M.S. (University of
 Toronto) 1917.
 John J. Hopfield.....Syracuse, New York
 A.B. (Syracuse University) 1917.
 One vacancy.

HOOPER FELLOWSHIPS IN RESEARCH MEDICINE

- Emily Beatrice Carrier.....Santa Barbara
A.B. 1918.
- Frank Warne Lee.....Berkeley
Cand. A.B. December, 1920.
- Karl F. Pelkan.....San Francisco
Cand. A.B. December, 1920.
- Francis P. Wisner.....Berkeley
A.B. 1919.

JAMES ROSENBERG MEMORIAL SCHOLARSHIP IN AGRICULTURE

FOUNDED BY LINDA AND JOSEPH ROSENBERG

- Albert Julius Winkler.....Berkeley
A.B. (University of Texas) 1918; M.A. (University of Missouri) 1918.

BERTHA HENICKE TAUSSIG MEMORIAL SCHOLARSHIP

FOUNDED BY THE WILL OF THE LATE HUGO A. TAUSSIG

- Miriam Young Bonner.....Azusa
A.B. 1919; cand. M.A. 1920.

PROFESSOR F. V. PAGET SCHOLARSHIP IN FRENCH

FOUNDED BY THE WILL OF MADAME F. V. PAGET

- Nadine Barbe.....Paris, France
Baccalaureate, France; Senior, Oxford, England; Cand. A.B. (Mills College) 1920.

WILLIAM WATT KERR SCHOLARSHIP IN MEDICINE

- Monroe Sutter.....Berkeley

FRANK M. PIXLEY SCHOLARSHIP IN LAW

- Lloyd Erwin Graybiel.....Chico
Cand. A.B. 1920.

SHEFFIELD SANBORN SCHOLARSHIPS

FOUNDED BY MRS. FRANCIS B. SANBORN

In the Medical School

Frank Willis Yocom.....Pasadena
 B.S. (South Dakota State College) 1910.
 William Bernard Faulkner, Jr.....Stockton

In the School of Jurisprudence

Albert Burton Mason.....Exeter
 Cand. A.B. 1920.
 Marguerite Marie Shipman.....Berkeley
 A.B. 1919.

In Hastings College of the Law

James Edward McClellan.....Brawley
 Sara Vida Ross.....Berkeley
 A.B. 1906; M.A. 1908.

ENID WILLIAMS MEMORIAL SCHOLARSHIP IN MUSIC

GIVEN BY MRS. EVAN WILLIAMS IN MEMORY OF HER DAUGHTER

Mary Elizabeth Millard.....Vancouver Island, British Columbia
 Cand. A.B. 1920.

ALBERT SYDNEY JOHNSTON MEMORIAL SCHOLARSHIP

FOUNDED BY THE UNITED DAUGHTERS OF THE CONFEDERACY, CHAPTER 79

Thomas R. B. Ashby.....Sacramento
 A.B. 1919.

HORATIO STEBBINS MEMORIAL SCHOLARSHIP

FOUNDED IN MEMORY OF THE LATE REGENT HORATIO STEBBINS

Hildreth Mosher Caldwell.....Berkeley
 Cand. A.B. 1920.

WILLARD DAWSON THOMPSON MEMORIAL SCHOLARSHIPS

FOUNDED BY THE WILL OF MRS. JENNIE D. THOMPSON

Thomas Dahlquist (Jurisprudence).....	Salt Lake City, Utah
A.B. 1917.	
Frank F. Burrows (Civil Engineering).....	Salt Lake City, Utah
Anne L. Newman (English).....	Ogden, Utah
James Thomas (Philosophy).....	Salt Lake City, Utah
A.B. 1917.	
Roger John Traynor (Political Science).....	Park City, Utah

AWARDS OF UNDERGRADUATE SCHOLARSHIPS 1920-1921

NOTE.—The place of residence stated in each case is the place from which the student came at the time of admission to the University.

PHOEBE A. HEARST SCHOLARSHIPS

FOUNDED BY THE LATE REGENT PHOEBE A. HEARST

- Helen Irene Bailey, Junior, Letters and Science, San Jose.
Margaret Elma Cralle, Junior, Letters and Science, Pasadena.
Milly Agnes Edwards, Senior, Letters and Science, Brawley.
†*Evelyn Loretta Forsyth, Senior, Letters and Science, Boulder Creek.
Wilhelmina Alice Godward, Senior, Letters and Science, Kenmare, North Dakota.
Ruth Hillerman, Senior, Letters and Science, Oakland.
*George Tilton Hine, Senior, Letters and Science, Berkeley.
Ruth Carolyn Hughes, Senior, Letters and Science, Los Gatos.
*Mary Lena Levendusky, Senior, Letters and Science, San Francisco.

CORNELIUS B. HOUGHTON MEMORIAL SCHOLARSHIP

FOUNDED BY MRS. CORNELIUS B. HOUGHTON IN MEMORY OF HER HUSBAND

Ina Wagner, Freshman, Letters and Science, Benicia.

*Reappointed. †Until December 31, 1920.

WILLIAM R. DAVIS SCHOLARSHIPS**FOUNDED BY THE LATE WILLIAM R. DAVIS, '74**

Elbert Fielding Burrill, Senior, Letters and Science, Long Beach.

Charles Edward Mowry, Junior, Mechanics, Fresno.

Helen Wilson Murdock, Senior, Letters and Science, El Paso, Texas.

HELEN DU BOIS SCHOLARSHIP**FOUNDED BY THE WILL OF MISS HELEN DU BOIS, '03**

Frances Matilda Hesse, Junior, Letters and Science, Boulder Creek.

BERTHA DOLBEER SCHOLARSHIPS**GIVEN BY MISS E. MARION WARREN OF SAN FRANCISCO**

Marion Blanche Phillips, Junior, Letters and Science, Glendale.

Madelaine Schreiber, Senior, Letters and Science, Santa Monica.

JOHN DOLBEER SCHOLARSHIPS**GIVEN BY MISS E. MARION WARREN OF SAN FRANCISCO**

*Clarence Sheldon Coates, Junior, Commerce, Sacramento.

Howard W. Reed, Junior, Commerce, Martinez.

SAN FRANCISCO GIRLS' UNION SCHOLARSHIPS

Lillian Theodora Lizée, Sophomore, Letters and Science, San Francisco.

Loretta Louise Street, Sophomore, Letters and Science, San Francisco.

P. CHARLES COLE SCHOLARSHIP**FOUNDED BY THE WILL OF THE LATE P. CHARLES COLE**

(In accordance with the terms of this bequest the scholarship is
awarded to a relative of the donor.)

William Allen Hargear, Jr., Sophomore, Letters and Science, Berkeley.

*Reappointed.

FLORENCE PREBLE BAKER SCHOLARSHIP

GIVEN BY MRS. C. PREBLE, OF OAKLAND, IN MEMORY OF HER DAUGHTER

Blanche La Perle Nelsen, Junior, Letters and Science, Los Angeles.

BRUCE HOWARD MEMORIAL SCHOLARSHIP

FOUNDED BY MRS. JOHN L. HOWARD IN MEMORY OF HER SON

Thomas Reed James, Senior, Chemistry, San Diego.

HERBERT KRAFT SCHOLARSHIP

GIVEN BY MR. GEORGE KRAFT IN HONOR OF HIS FATHER

Elsie Canny, Freshman, Agriculture, Corning.

**SWEDISH-AMERICAN PATRIOTIC LEAGUE OF
CALIFORNIA SCHOLARSHIP**

Ruby Lindberg, Senior, Letters and Science, Dinuba.

BERNHARD NATHAN SCHOLARSHIPS

FOUNDED BY THE WILL OF MR. BERNHARD NATHAN

Moses Judah Aronson, Sophomore, Letters and Science, New York, N.Y.

**Hazel Margaret Haggerson, Sophomore, Letters and Science, Silver City,
New Mexico.**

Joseph Alexander Wise, Senior, Civil Engineering, Berkeley.

ALBERT SIDNEY JOHNSTON MEMORIAL SCHOLARSHIP

FOUNDED BY THE UNITED DAUGHTERS OF THE CONFEDERACY, CHAPTER 79

Olin Cortis Majors, Senior, Letters and Science, San Diego.

ISAIAS W. HELLMAN SCHOLARSHIPS

FOUNDED BY THE LATE REGENT ISAIAS W. HELLMAN

***Clifton Carl Hildebrand, Senior, Letters and Science, Oakland.**

Livingston Jenks, Junior, Letters and Science, Berkeley.

**Edwin Hoffman Rosenthal, Junior, Letters and Science, East Los Vegas,
New Mexico.**

***Zara Witkin, Senior, Civil Engineering, San Francisco.**

***Reappointed.**

CARRIE M. JONES SCHOLARSHIPS**FOUNDED BY THE WILL OF MRS. CARRIE M. JONES**

- Morris Winslow Ankrum, Senior, Letters and Science, Los Angeles.
Benjamin Benas, Senior, Civil Engineering, San Francisco.
Charles Binder, Junior, Agriculture, Los Angeles.
*Anton Buyko, Junior, Letters and Science, San Francisco.
James Jacob Cline, Junior, Letters and Science, Pomona.
James Cottrell, Senior, Mechanics, Oakland.
Reid Perkin Crippen, Senior, Mechanics, Los Angeles.
David Davis, Senior, Agriculture, Riverside.
Clifford T. Dodds, Senior, Agriculture, San Diego.
Leland Harris Emerson, Junior, Letters and Science, Ontario.
Claude Ellis Forkner, Junior, Letters and Science, Stockton.
Myer Samuel Fox, Junior, Commerce, Los Angeles.
Arthur Henry French, Senior, Chemistry, Berkeley.
James Redlands Frug, Junior, Letters and Science, Oakland.
Henry C. Holt, Junior, Agriculture, Berkeley.
Dee Holder, Sophomore, Letters and Science, Anaheim.
Virgil Lewis Kaye, Junior, Letters and Science, South Pasadena.
Roland R. Leslie, Senior, Agriculture, Hollywood.
Ezra Thomas McLean, Sophomore, Chemistry, San Diego.
George Beaumont MacMahon, Sophomore, Commerce, San Francisco.
Douglas Maggs, Sophomore, Letters and Science, San Francisco.
Sharon Chapman Merriman, Sophomore, Letters and Science, Medford, Ore.
Theodore Robert Meyer, Junior, Letters and Science, San Diego.
Harold Parsons Miller, Senior, Agriculture, Willits.
*Frank Allan Polkinghorn, Junior, Mechanics, Riverside.
Ludvig Reimers, Junior, Chemistry, Stockton.
Charles Danziger Samuels, Senior, Chemistry, Riverside.
Edward Cannon Simpson, Junior, Letters and Science, Los Angeles.
*Lester James Spindt, Senior, Letters and Science, Pasadena.
Gustave Spirz, Junior, Civil Engineering, San Francisco.
Albert Bryan Sprott, Senior, Letters and Science, San Diego.
Leo Varner Steck, Junior, Chemistry, Colton.
Lee Houghton Swinford, Junior, Letters and Science, Santa Cruz.
Trevenen Johns Taylor, Sophomore, Letters and Science, Oakland.
Carl Frederick Trieb, Junior, Letters and Science, Berkeley.
*Edwin Verne Van Amringe, Senior, Chemistry, Oakland.
*Waldo Westwater, Junior, Chemistry, Mount Hamilton.

*Reappointed.

JOSEPH BONNHEIM MEMORIAL SCHOLARSHIPS

FOUNDED BY MR. AND MRS. ALBERT BONNHEIM, OF SACRAMENTO
IN MEMORY OF THEIR SON

- *Marion Frambes Abbott, Senior, Letters and Science, Pasadena.
- Grace Thorne Allen, Junior, Letters and Science, Brawley.
- Genevieve Luella Brand, Sophomore, Letters and Science, Berkeley.
- Margaret Bravinder, Junior, Letters and Science, Pasadena.
- Ruby Marie Camblin, Senior, Letters and Science, Riverside.
- Helene Eichaker, Junior, Commerce, San Francisco.
- Arthur William Ellis, Sophomore, Commerce, Talent, Oregon.
- Paul Thomas Hadley, Sophomore, Mechanics, San Francisco
- Leland Girard Harbers, Sophomore, Commerce, Waddington.
- *Edna Frances Keyes, Senior, Letters and Science, Fresno.
- Adele Kibre, Senior, Letters and Science, Los Angeles.
- *Alfred Emil Maffly, Senior, Commerce, San Francisco.
- Theodore Matthew, Junior, Letters and Science, Santa Rosa.
- Wallace Henry Miller, Junior, Commerce, Riverside.
- Genevieve Belle Nicholson, Junior, Letters and Science, Patterson.
- Lu Emily Hess Pearson, Junior, Letters and Science, Oakland.
- Hilda Lucille Phillips, Junior, Letters and Science, Watsonville.
- *Samuel Bunker Randall, Senior, Letters and Science, San Diego.
- Lester Edwin Reukema, Junior, Mechanics, Santa Cruz.
- Edna Bertha Rinset, Sophomore, Letters and Science, Fairfield.
- Viola Rosenquist, Senior, Letters and Science, Sebastopol.
- Marjoria Elizabeth Shatto, Junior, Letters and Science, Hollywood.
- Marjoria Clarissa Tracy, Junior, Letters and Science, Hollywood.
- Irmgard Witt, Senior, Letters and Science, Benicia.

STATE OF CALIFORNIA SCHOLARSHIPS

FOUNDED BY THE REGENTS OF THE UNIVERSITY OUT OF THE INCOME
FURNISHED TO THE UNIVERSITY BY THE STATE

First Congressional District

- Frederick Joseph Adams, Junior, Letters and Science, Santa Rosa.
- Corinne Miriam Bott, Senior, Letters and Science, Fortuna.
- Edith Muriel Wilkinson, Sophomore, Letters and Science, Geyserville.

*Reappointed.

Second Congressional District

Pauline Darrell Hotchkin, Senior, Commerce, Anderson.

Third Congressional District

James Lawrence Faulkner, Junior, Letters and Science, Stockton.

Niels David Lindeberg, Sophomore, Commerce, Calistoga.

Mary Helen Tobin, Junior, Letters and Science, Stockton.

Fourth, Fifth and Sixth Congressional Districts

Irwin Oliver Addicott, Junior, Letters and Science, San Francisco.

Dorothy May Clark, Sophomore, Letters and Science, Oakland.

*Charlotte Alice Euler, Junior, Letters and Science, San Francisco.

Winifred Jenkins McGurran, Sophomore, Commerce, San Francisco.

Margaret Pope, Junior, Letters and Science, Oakland.

John Samuel Carnegie Ross, Sophomore, Mechanics, Berkeley.

*Harry Edward Stevens, Junior, Letters and Science, Alameda.

Janet Willson, Sophomore, Letters and Science, Oakland.

Seventh Congressional District

Reginald Hart King, Junior, Chemistry, Fresno.

E. June Proctor, Junior, Letters and Science, Laton.

*Stanley Bonneau Reid, Sophomore, Letters and Science, Thalheim.

Eighth Congressional District

Miriam Mayhew Leyrer, Junior, Letters and Science, Pacific Grove.

Eleanor Lyons, Junior, Letters and Science, Santa Barbara.

Kenneth Ray Nutting, Senior, Letters and Science, Hollister.

Edward Payson Steinhart, Sophomore, Agriculture, Santa Clara.

Ninth and Tenth Congressional Districts

Alice Florence Handyside, Junior, Letters and Science, Los Angeles.

Edna Olivia Newgren, Junior, Letters and Science, Pasadena.

Edith Mary Thomas, Sophomore, Commerce, Azusa.

Eleventh Congressional District

Katharine Hanford Boardman, Sophomore, Letters and Science, Riverside.

Doris Darnell, Sophomore, Commerce, Brawley.

Wesley Perry Goss, Junior, Mining, San Diego.

*Reappointed.

LEVI STRAUSS SCHOLARSHIPS

FOUNDED BY MR. LEVI STRAUSS. CONTINUED SINCE THE DEATH OF
MR. STRAUSS BY THE LEVI STRAUSS COMPANY

First Congressional District

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*Dorothea Gorter, Senior, Letters and Science, Grandville.

Second Congressional District

Margaret Elizabeth Everett, Junior, Letters and Science, Nevada City.

Third Congressional District

Mary Gertrude Phillips, Sophomore, Letters and Science, Fairfield.
Jules Emil Toussaint, Junior, Mechanics, Berkeley.

Fourth, Fifth and Sixth Congressional Districts

*Salome Elizabeth Boyle, Junior, Commerce, Berkeley.
Earl Cleveland Campbell, Sophomore, Letters and Science, Medford, Ore
Florence Victoria Corder, Sophomore, Letters and Science, Fruitvale.
Edith Frederika Graves, Junior, Letters and Science, Berkeley.
Mildred Hawkins Hurd, Senior, Letters and Science, Salt Lake City, Utah.
Frederique Willink Ketjen, Junior, Letters and Science, San Francisco.
Charlotte Rasmussen, Senior, Letters and Science, Milton, Oregon.
Aghavin Avedis Shaghoian, Sophomore, Letters and Science, Van, Armenia.
Mary Kathleen Sheridan, Sophomore, Letters and Science, Oakland.
Marian Elizabeth Shorten, Sophomore, Letters and Science, San Francisco.
Albert King Whitton, Sophomore, Letters and Science, Oakland.

Seventh Congressional District

*Wilma Gladys Cheatham, Senior, Letters and Science, Los Banos
Charles Arthur Glover, Junior, Letters and Science, Selma.
Erle Heath, Sophomore, Letters and Science, Tehachapi.
*Rose May McLaughlin, Junior, Letters and Science, Modesto.

*Reappointed.

Eighth Congressional District

Elsie Hill, Senior, Letters and Science, Santa Barbara.
Robert Charles McKellips, Junior, Letters and Science, San Jose.
Lillian Frances Peacock, Sophomore, Letters and Science, Monterey.

Ninth and Tenth Congressional Districts

Margaret Gray Cameron, Junior, Letters and Science, Pasadena.
Marion Phoebe Davis, Junior, Letters and Science, Los Angeles.
Lois Belle Nicholson, Junior, Letters and Science, Los Angeles.
Lucie V. Wilson, Junior, Letters and Science, Los Angeles.

Eleventh Congressional District

Leora Mae Culpepper, Senior, Commerce, Blythe.
Helen Gentry, Junior, Letters and Science, Brawley.
†Florence Dean Kirkpatrick, Senior, Letters and Science, Ontario.

**DIRECTORS SCHOLARSHIP IN THE CALIFORNIA COLLEGE
OF PHARMACY**

James Herbert Walker, Cand. Ph.G. 1920, San Jose.

†Until December 31, 1920.

PRIZES

EMILY CHAMBERLAIN COOK PRIZE IN POETRY

FOUNDED BY PROFESSOR ALBERT S. COOK

(Announcement to be made later.)

NEWMAN HALL ESSAY PRIZE

FOUNDED BY THE ALUMNI COUNCIL OF THE NEWMAN CLUB

John Lloyd Mecham.

A.B. 1916; M.A. 1917.

IRVING PRIZE

FOUNDED BY MR. S. C. IRVING OF THE CLASS OF '79

Thomas William Scott Sharp, of the class of 1920.

JOFFRE MEDAL

GIVEN ANNUALLY, SINCE 1895, BY THE BARON DE COUBERTIN IN HONOR
OF THE LATE PRESIDENT CAENOT OF FRANCE

Kenneth Lloyd Williams, of the class of 1922.

UNIVERSITY MEDAL

FOUNDED BY FRIENDS OF THE UNIVERSITY AND AWARDED ANNUALLY TO
THE MOST DISTINGUISHED GRADUATE OF THE YEAR

Milton Leroy Almquist, of the College of Mechanics.

BERKELEY, May 12, 1920.

1050-5,'20

REGISTER—PART XVI

**CATALOGUE OF OFFICERS AND
STUDENTS, 1919-20**

FEBRUARY, 1920

**For supplementary list of names, academic departments, see page
following list of undergraduates in these departments.**

UNIVERSITY OF CALIFORNIA

CATALOGUE OF OFFICERS AND STUDENTS FOR 1919-20

(To February 20, 1920)

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UNIVERSITY OF CALIFORNIA PRESS

BERKELEY

1920

EXPLANATORY NOTE

In the CATALOGUE OF OFFICERS, the names of University buildings are abbreviated as follows: AH, Agriculture Hall; Anat, Anatomy Building; Arch, Architecture Building; B, Botany Building; Bac Lab, Bacteriology Laboratory; Bacon, Bacon Hall; BL, Bancroft Library; Boalt, Boalt Hall of Law; Budd, Budd Hall; Chem, Chemistry Building; Cal, California Hall; CE, Civil Engineering Building; D, Drawing Building; E, East Hall; Ent Lab, Entomology Laboratory; FCL, Fertilizer Control Laboratory; F, Forestry Building; Gilman, Gilman Hall; HE, Home Economics Building; HG, Harmon Gymnasium; Hilgard, Hilgard Hall; H, Hearst Gymnasium; HM, Hearst Memorial Mining Building; HP, Hygiene and Pathology Building; Inf, Infirmary; L, University Library; M, Mechanics Building; M Annex, Mechanics Annex; Mil, Military Science Building; Mus, Museum of Greek Sculpture and Anthropology; Music, Music Building; MVZ, California Museum of Vertebrate Zoology; O, Students' Observatory; P, Philosophy Building; PL, The Rudolph Spreckels Physiological Laboratory; S, South Hall; Vet, Veterinary Science Laboratory; W, Benjamin Ide Wheeler Hall.

Officers of Colleges or Departments situated elsewhere than in Berkeley are designated by an abbreviation following the title, viz: (D) College of Dentistry, (A) California School of Fine Arts, (H) Hastings College of the Law, (HF) George Williams Hooper Foundation for Medical Research, (Hosp) University hospitals, (LO) Lick Observatory, (M) Medical School, (Ph) California College of Pharmacy, (FS) University Farm School, (S) Southern Branch of the University of California.

The following abbreviations are also used: M, Monday; Tu, Tuesday; W, Wednesday; Th, Thursday; F, Friday; S, Saturday; UC, University of California.

When no office hours are given, instructors may be consulted immediately before or after their recitations.

The dagger (†) marks the names of officers who are married; the asterisk (*) the names of those absent on leave throughout the year; the superior figure, ¹, means in residence first half-year only; ², second half-year only; =, permanent mailing address, both for terms and vacations.

In the CATALOGUE OF STUDENTS, the college is indicated as follows: LS, Letters and Science; Com, Commerce; Agr, Agriculture; Mec, Mechanics; Med, Medicine (first and part of the second year); Min, Mining; CE, Civil Engineering; Chem, Chemistry. The status of the student is regular, unless otherwise indicated, as follows: s, special; al, at large. The number 1, 2, 3, 4, etc., prefixed to the abbreviation showing the college indicates the class or year of residence; for graduate students in the School of Jurisprudence and in the Medical School the numeral denotes the class, not the year of residence in the Graduate Division. Students admitted this year with advanced standing are designated by (1) prefixed to the figure indicating the class. ¹, means in residence first half-year only; ², second half-year only. The (*) marks the names of students who received the bachelor's degree in December, 1919. The (†) marks the names of graduate students who are registered for work in absence. PreA, following the abbreviation showing the college, indicates that the student is enrolled in the course preparatory to the School of Architecture; PreM, in the pre-medical course; PreL, in the pre-legal course; Juris, in the School of Jurisprudence.

The student's home is given immediately after the name; all home addresses are in the state of California, unless stated to be elsewhere. In the lines following the name and home are given the student's status and his address and telephone number while attending the University; and all such addresses are in Berkeley, unless stated to be elsewhere. The following abbreviations are used: ter, terrace; rd, road; pl, place; apts, apartments; dr, drive; SF for San Francisco, O for Oakland, A for Alameda, P for Piedmont, R for Richmond, SL for San Leandro, SM for San Mateo, SR for San Rafael. The word "Local" used with telephone numbers denotes telephones on the University's private exchange; Ala, Alameda; Bkly, Berkeley; Dgls, Douglas; Elm, Elmhurst; Flmr, Fillmore; Frkn, Franklin; Frvl, Fruitvale; Grfld, Garfield; Krny, Kearny; Lksd, Lakeside; Mer, Merritt; Mrkt, Market; Msn, Mission; Oakd, Oakland; Pied, Piedmont; Pac, Pacific; Papt, Prospect; Rchd, Richmond; Snet, Sunset; Sutr, Sutter; Valen, Valencia; Rand, Randolph.

For explanation of the abbreviations used in the catalogue of students in the SOUTHERN BRANCH (Teachers' Curricula), see page 267.

REGENTS OF THE UNIVERSITY

NOTE.—The regular meetings of the Regents are held at 2 p.m. on the second Tuesday of each month, except July, and on the day before Commencement, at such places as may from time to time be determined, ordinarily at the California School of Fine Arts, California and Mason streets, San Francisco. The Los Angeles office of the Regents is in Room 417, Union League Building, Los Angeles.

REGENTS EX OFFICIO

HIS EXCELLENCY WILLIAM D. STEPHENS
Governor of California and President of
the Regents
Sacramento

CLEMENT CALHOUN YOUNG, B.L.
Lieutenant-Governor of California
Sacramento (276 Post st, San Francisco)

HENRY W. WRIGHT
Speaker of the Assembly
1009 Fair Oaks av, South Pasadena

WILL C. WOOD
State Superintendent of Public In-
struction
Sacramento

GEORGE C. ROEDING
President of the State Agricultural
Society
Roeding place, Fresno

BYRON MAUZY
President of the Mechanics' Institute
250 Stockton st, San Francisco

WIGGINTON ELLIS CREED, A.B.
President of the Alumni Association
593 Market st, San Francisco

APPOINTED REGENTS

The term of the appointed Regents is sixteen years, and terms expire March 1 of the year indicated in parentheses. The names are arranged in the order of original accession to the board.

ARTHUR WILLIAM FOSTER, Esq. (1932)
Southern Pacific bldg, San Francisco

GARRETT WILLIAM McENERNEY, Esq. (1920)
2002 Hobart bldg, San Francisco

RUDOLPH JULIUS TAUSSIG, Esq. (1932)
1521 Van Ness av, San Francisco

GUY CHAFFEE EARL, A.B. (1934)
14 Sansome st, San Francisco

JOHN ALEXANDER BRITTON, Esq. (1930)
445 Sutter st, San Francisco

CHARLES STETSON WHEELER, B.L. (1928)
Nevada Bank bldg, San Francisco

WILLIAM HENRY CROCKER, Ph.B. (1924)
Crocker National Bank, San Francisco

PHILIP ERNEST BOWLES, Ph.B. (1922)
American National Bank, San Francisco

JAMES KENNEDY MOFFITT, B.S. (1924)
First National Bank, San Francisco

CHARLES ADOLPH RAMM, B.S., M.A., S.T.B. (1928)
1100 Franklin st, San Francisco

EDWARD AUGUSTUS DICKSON, B.L. (1926)
637 Wilton pl, Los Angeles

JAMES MILLS, Esq. (1926)
Hamilton City

CHESTER HARVEY ROWELL, Ph.B. (1920)
Fresno

MORTIMER FLEISHHACKER, Esq. (1934)
Anglo-California Trust Company, San Francisco

GEORGE I. COCHRAN, LL.D. (1930)
501 West Sixth st, Los Angeles

Mrs. MARGARET SARTORI (1922)
725 West Twenty-eighth st, Los Angeles

OFFICERS OF THE REGENTS

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President
Sacramento

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Comptroller, Secretary of Regents, and
Land Agent
220 California Hall, Berkeley

Robert Gordon Sproul, B.S.
Assistant Comptroller, Assistant Sec-
retary and Assistant Land Agent.
220 California Hall, Berkeley

Mortimer Fleishhacker, Esq.
Treasurer
Anglo-California Trust Company, San
Francisco

James M. Mannon, Jr., LL.B.
Attorney
1107 Merchants Exchange bldg, San
Francisco

STANDING COMMITTEES OF THE BOARD OF REGENTS FOR THE YEAR 1919-20**Agriculture:*

Regents Foster, Roeding, Bowles, Cochran,
and Mills.

Curricula and Degrees:

Regents Rowell, Moffitt, Ramm, Wood,
and Creed.

Finance:

Regents Earl, Foster, Britton, Moffitt, and
Taussig.

Grounds and Buildings:

Regents Britton, Bowles, O. S. Wheeler,
Dickson, and Fleishhacker.

Lick Observatory:

Regents Ramm, McEnerney, Young,
Crocker, and Wright.

*Medical Instruction and University**Hospital:*

Regents Crocker, Moffitt, Britton, Earl,
Ramm, Taussig, and Mrs. Sartori.

*Southern Branch of the University of Cali-
fornia and Scripps Institution for
Biological Research:*

Regents Dickson, Cochran, Creed, Mrs.
Sartori, Wood, Rowell, and Taussig.

Wilmerding School:

Regents Taussig, Earl, and Moffitt.

Library:

Regents Moffitt, Mauzy, Bowles, Wheeler,
and Mills.

Endowments:

Regents Crocker, Britton, Mrs. Sartori,
Bowles, Cochran, McEnerney, and
Fleishhacker.

Executive Committee:

This committee consists of the chairmen
of all standing committees and the
President of the Alumni Association.

* The President of the Board of Regents and the President of the University are *ex officio* members of all committees of the Board. In each committee the name of the chairman is first and the name of the vice-chairman is second.

ADMINISTRATIVE OFFICERS

The offices of the President, Secretary, Comptroller, Recorder, Appointment Secretary, and Manager of the University Press are open from 9 a.m. to 5 p.m. on week days, except on Sunday, when they close at 12 m.

The University Library is open from 8 a.m. to 10 p.m. Monday to Saturday, inclusive; and from 9 a.m. to 5 p.m., Sunday. Vacation schedule: Monday to Friday, 8 a.m. to 5 p.m.; Saturday, 8 a.m. to 12 m.; closed Sunday.

The Infirmary is open daily, except Saturday afternoons and Sundays, from 8 to 10 a.m. and from 5 to 6 p.m. for men; and from 10 a.m. to 12 m. and from 8 to 4 p.m. for women. Mondays and holidays (by appointment), 9 to 10 a.m. for men; 10 to 11 a.m. for women. Optometrists' hours: daily, excepting Sundays, 9 a.m. to 12 m.; 1 to 5 p.m. Oculists' hours: daily, excepting Thursdays and Sundays, 9 to 10 a.m. for men; 10 to 11 a.m. for women.

IN BERKELEY

President Emeritus of the University:

Benjamin Ide Wheeler
128 Library

President of the University:

David P. Barrows
217 California Hall

Assistant to the President

Morse A. Cartwright
217 California Hall

Comptroller, Secretary of the Board of

Regents, and Land Agent:
Ralph P. Merritt
220 California Hall

Assistant Comptroller, Assistant Secretary of the Regents, and Assistant Land Agent:

Robert G. Sproul
220 California Hall

*Members in the Academic Colleges:**The Faculties:*

John C. Merriam
217 California Hall

The Graduate Division:

Armin O. Leuschner
209 California Hall

The Undergraduate Division:

Thomas M. Putnam
207 California Hall

The Summer Sessions:

Walter M. Hart
105 California Hall

Women:

Lucy W. Stebbins
205 California Hall

Letters and Science:

Thomas M. Putnam, Acting Dean
207 California Hall

Agriculture:

Thomas F. Hunt, *Dean*
111 Agriculture Hall

Herbert J. Webber, *Director of Experiment Station*

110 Agriculture Hall

Walter Mulford, *Director of Resident Instruction*

111 Agriculture Hall

Mechanics:

Clarence L. Cory
33 Mechanics Building

Mining:

Frank H. Probert
133 Hearst Mining Building

Civil Engineering:

Charles Derleth, Jr.
204 Civil Engineering Building

Chemistry:

Gilbert N. Lewis
108 Gilman Hall

Commerce:

Henry R. Hatfield
22 Wheeler Hall

Director of the School of Architecture:

John Galen Howard
Architecture Building

Director of the School of Education:

Alexis F. Lange
315 Library

Director of the School of Jurisprudence:

Wm. Carey Jones
212 Boalt Hall of Law

Recorder of the Faculties:

James Sutton
204 California Hall

University Examiner:

B. M. Woods
201A California Hall

Administrative Officers

ADMINISTRATIVE OFFICERS IN BERKELEY—(Continued)

University Physician:

Robert T. Legge
Infirmary

Physician for Women:

Ruby L. Cunningham
Infirmary

Director of University Extension:

Leon J. Richardson
801 California Hall

Director of the Greek Theatre:

Samuel J. Hume
804 California Hall

Appointment Secretary:

Mrs. May L. Cheney (absent on leave
Feb. 9–May 9)
102 California Hall

Librarian:

Harold L. Leupp
Library

Associate Librarian:

Sidney B. Mitchell
Library

University Printer:

Joseph W. Flinn
Printing Office

Manager of the University Press:

Morse A. Cartwright
Oliver M. Washburn, Acting Manager
University Press

Superintendent of Grounds and Buildings:

E. A. Hugill
Superintendent's Office

Alumni Secretary:

D. O. Peters
201B California Hall

AT MOUNT HAMILTON

Director of the Lick Observatory:

William W. Campbell
Lick Observatory, Mount Hamilton

IN SAN FRANCISCO

Treasurer of the Regents:

Mortimer Fleishacker
Anglo-California Trust Co.

Attorney for the Regents:

J. M. Mannon, Jr.
Merchants Exchange Building

California School of Fine Arts:

Dean: E. Spencer Macky
Director: Lee F. Randolph
California and Mason sts

Hastings College of the Law—

Dean: Maurice E. Harrison
City Hall
Registrar: George J. Martin
928 Pacific Building

***Medical School and Hospitals:**

Acting Dean: Wallace I. Terry

Director of Hospitals:

W. E. Musgrave
Third and Parnassus avs

George Williams Hooper Foundation for

Medical Research:

Director: George H. Whipple
Parnassus av and Arguello blvd

College of Dentistry:

Dean: Guy S. Millberry
Parnassus av and Arguello blvd

California College of Pharmacy:

Dean: Franklin T. Green
Second and Parnassus avs

Extension Division:

Office: 140 Kearny st

IN LOS ANGELES

†Los Angeles Medical Department:

Dean: George H. Kress
245 Bradbury Building

Extension Representative in Southern

California
Miss Nadine Crump
628 Metropolitan Building

Southern Branch of the University of

California:
Director: Ernest C. Moore
Millsbaugh Hall

* The work of the first year and part of the second year of the Medical School is done in Berkeley.

† Graduate instruction only is offered in the Los Angeles Medical Department.

DEPARTMENTS OF INSTRUCTION

WITH STAFF OF INSTRUCTION IN EACH, JANUARY-MAY, 1920

The name appearing first under each department is that of the chairman of the department. The asterisk (*) marks the names of instructors who are absent on leave throughout the year; ¹, in residence first half-year only; ², second-half-year only.

Agriculture: Hunt, 111 AH; Webber, 110 AH; Mulford, Voorhies (secretary), 111 AH.

Agricultural Chemistry: Burd, 9 FOL; Hoagland, 5 FOL; Martin, 16 FOL; Hibbard, 1 FOL; Dore, 1 FOL.

Agricultural Education: Griffin, Kern, 303 Budd; Dadisman, University Farm; *Hummel, Butterfield, Benton, 302 Budd.

Agricultural Extension: Crocheron, Tipsett, 106 AH; Rubel, Nelson, Hagen, Ralston, 105 AH; Clarke, Elwood, 108 AH; Bryant, Hunt, 105 AH.

Agronomy: Gilmore, 309 Hilgard; Kennedy, 120 Hilgard; Mackie, 122 Hilgard; Madson, 119 Hilgard; Hendry, Wilkinson, University Farm.

Animal Husbandry: True, Thompson, Woll, J. F. Wilson, Castle, G. H. Wilson, Dougherty, Batchelder, University Farm, Davis.

Citriculture: Coit, Johnston, 339 Hilgard; Hodgson, Los Angeles.

Dairy Industry: Van Norman, Roadhouse, Baird, Marquardt, University Farm, Davis.

Entomology: Woodworth, 200 AH; Severin, Coleman, 9 AH; Herms, 203 AH; Essig, 5 AH; Freeborn, 203 AH; Gray, Wilbur, 300 Entomology; Van Dyke, 203 AH; De Ong, University Farm, Davis.

Farm Management: Adams, 310 Hilgard.

Farm Mechanics: Fletcher, Hoffman, Tubbs, Belton, Ingram, University Farm, Davis.

Forestry: Mulford, *Mason, Bruce, Metcalf, Fritz, Jotter, 305 Hilgard.

Genetics: Babcock, Clausen, Collins, 314 Hilgard.

Experimental Irrigation: Beckett, Wadsworth, University Farm.

Irrigation Investigations: Adams, Veilmeyer, 220 Federal bldg.

Landscape Gardening and Floriculture: Gregg, Flint, Jones, 304 AH.

Nutrition: Jaffa, 107 Budd; Lea, 260 Ent.

Olericulture: Carey, University Farm, Davis.

Plant Pathology: Horne, 210 AH; Smith, 308 AH. See also Graduate School of Tropical Agriculture.

Pomology: Whitten, Overholser, Bennett, Gray, 381 Hilgard; Howard, Tufts, Philp, Hendrickson, *Allen, Neer, University Farm.

Poultry Husbandry: Dougherty, Lloyd, Burgess, University Farm.

Rural Institutions: Mead, Camp, Mus. AH.

Soils and Fertilizers: *Lipman, Linhart, Woodhouse, 201 Budd; Gericke, 206 Budd; Davis, 209 Budd.

Soil Technology: Shaw, Smith, Weir, Monroe, Wank, 320 Hilgard.

Veterinary Science: Haring, Hart, Traum, †Peterson, 101 Budd; Hayes, Beach, University Farm, Davis.

Viticulture: Bioletti, Bonnet, Christie, Cruess, 336 Hilgard.

Graduate School of Tropical Agriculture and Citrus Experiment Station, Riverside: Barrett, Quayle, Fawcett, Kelley, Vaile, Reed, Batchelor, Frost, Thomas, Smith, Haas, Goodspeed.

Anatomy: Evans, 16 Anat; Moody, 11 Anat; *P. E. Smith, 3 Anat; Scott, 4 Anat; Emmel, 14 Anat; Sweet.

Anthropology: Kroeber, Radin, Gifford, Gray, 6 Mus; Faye, 7 Mus.

Architecture: Hays, Howard, Perry, Sprague (secretary), Arch; Cummings, M Arch; Jeans, Leland, W Arch.

† Died, December 24, 1919.

Astronomy: Crawford, 2 O; Leuschner, 3 O; Einarsson, 7 O; Meyer, Leonard, Scioberetti, 10 O; Jeffers, 11 O.

Biochemistry and Pharmacology: Bloor, 209 PL; Schmidt, 106 PL; Sundstroem, 111 PL; Foster, 114 PL; Clark, 109 PL; Johnson, 4 PL; Brody, 4 PL.

Botany: Goodspeed, 412 Chem Annex; *Setchell, 817 HM; Jepson, 5 B; Gardner, 7 B; Smiley (secretary), 306 HM; Essig, 421 Chem Annex.

Celtic: Lyman, 412 W.

Chemistry: Lewis, 110 Gilman; O'Neill, 114 Gilman; Bray, 104 Gilman; Hildebrand, 115 Gilman; Porter, 201 Chem; Blasdale (secretary), 221 Chem; Randall, 103 Gilman; Gibson, 220 Gilman; Latimer, 2 Gilman; Eastman, 203 Gilman; Stewart, 249 Gilman; Branch, 110 Chem; Hine, 220 Gilman.

Civil Engineering: Derleth, 204 CE; Hyde, 101 CE; Foote, 305 CE; Eddy, 304 CE; Alvarez, 306 CE; Langelier, 103 CE; Wiskocil, 106 CE; *P. A. Swafford, Nobmann, 109 CE; Meek (secretary), 204 CE; *Dewell, C. C. Swafford, 304 CE.

Drawing and Art: Kower, 305 D; Wythe, 300 D; Judson, C Arch; *Neuhaus, Patterson, Nahl, 100 D; Brower, 205 D; Miller, 301 D.

Economics: Cross, *Plehn, Macaulay, Forbes, Flügel, Washburn, Blum, Sheppard, Staehling, Armstrong, Kincaid, Grimes, Hatfield, *Hutchinson, Daggett, Peixotto, *Seligman, *Rastall, *Tucker, Mueller, Marra, 22 W; Barnhart, 110 L; Schleef, 438 L; Stebbins, 205 Cal; Brown, 12 P.

Education: Kemp, Eby, 315 L; Lange, Boone, 316 L; Rugn, Leonard, Breitwieser, Thomas, Edwards, Bolin, Mead, Waibel (secretary), 315 L; French, 316 L; Barnhart, 110 L; Jacobs, 315 L.

English: Gayley, Kleinecke (secretary), 407 W; Hart, 451 W; Montgomery, 105 Cal; Wells, Bruce, Hunter, 450 W; Kurtz, 409 L; Sanford, Bacon, 411 W; *Cory, Gordon, Brodeur, 405 W; *Breck, 410 W; Lyman, Anderson, 412 W; Boyd, 404 W; Raymond, Sweetland, 440 W; Riess, 409 L; Clark, 414 W; Hawkins, Wilcox, Baird, 410 W; Hume, McConnell, 303 Cal; Bonner, Walton, Scofield, Stewart, Silverman, 406 W; Cartwright, 217 Cal; Blanchard, 301 Cal.

French: Holbrook, 426 W; *Carnoy, Turner, Clark, Pavid, 463 W; Fay, Solomon (secretary), 464 W; Michaud, Girard, 473 W; Barnier, 472 W; Krunich, 419 L; Singleton, 425 W; Joralemon, Tostenson, Pagés, Langlard, Patrick, 430 W; Ryder, 334 W; Sturm, Réau, 102 W.

Geography: Holway, 8 Bacon; Varney, 98 Bacon; Coulter, 7 Bacon.

Geology and Mineralogy: Louderback, 108 Bacon; Lawson, 107 Bacon; Eakle, 6 Bacon; Taliaferro, 104 Bacon; Bond, 2 Bacon; Bailey, 101 Bacon.

German: Schilling, 401 W; Paschall, 400 W; Bell, 403 W; Price, Tabor, 402 W; *Schneider, Ring, 403 W.

Greek: Calhoun, 474 W; Allen, 435 W; Linforth, 434 W; Jones (secretary), 474 W.

History: Bolton, 133 L; McCormac, Paetow, Morris (secretary), Leebick, Van Nostrand, Fuller, 30 W; *Chapman, Priestley, *Ramfrez, BL.

Home Economics: Patterson, 300 HE; Morgan, 206 HE; Metcalf, 211 HE; Williams, 210 HE; Fancher, 303 HE; Conant, 305 HE; Swainson, 101 HE; Okey, 209 HE; Gilmore, 309 Hilgard.

Hygiene: Legge, Cunningham, Oldenbourg, McVey, Boyers, Cairns, Inf; Force, Beatie, Cooke, HP.

Irrigation: Etcheverry, Harding, 307 AH.

Italian: Tommasini, 430 W.

Jurisprudence: Jones, 212 Boalt; McMurray, Calkins, 213 Boalt; Kidd, 214 Boalt; *Elliott, 432 W; Lynch, 215 Boalt; Wright, 216 Boalt; Colby, 107 Boalt; *Matthew, *Tasheira, 105 Boalt; *Griffiths, *Phleger, Grimes, 303 Boalt; Radin, 214 Boalt; Robinson, 216 Boalt; Dobzensky, Martin, 120 L.

Latin: Merrill, 436 W; Richardson, 301 Cal; Price, 478 W; Rand, 433 W; Nutting, Deutsch, 477 W; Petersson, 476 W; Washburn, Univ. Press.

Library Science: Leupp, 208 L; Mitchell, 210 L; Coulter, Martin, 219 L.

Mathematics: Haskell, 421 W; Lehmer, 417 W; Cajori, McDonald, 456 W; Noble, Bernstein, 455 W; Putnam, 207 Cal; Buck, 454 W; Irwin, Morris, 416 W; Steed, Daus, McFarland, Campbell, Sagen, Alderton, 420 W; Sperry, 417 W; Meyer, 10 O.

Mechanics: Cory, 33 M; LeConte, Langille, Vanleer, 27 M; 'Raber, Woods, 28 M; Dickie, 203 M Annex; Cherry, 4 M; Greves, 'Corbett, 40 M; Domooske, 32 M; *Robinson, George, 24 M; Cox, 23 M; Boelter, 'McFarland, 32 M.

Military Science and Tactics: Nance, Underhill, McCabe, Fiske, Mil.

Mining: Probert, 132 HM; Hersam, 204 HM; Weeks, 101 HM; Morley, 108 HM; Uren, 216 HM.

Music: Stricklen, Graham, F; Steindorff, 200 HM.

Oriental Languages: Williams, 453 W; Kuno, 415 L; Kiang, 416 L.

Palaeontology: Merriam, 204 Bacon; Clark, 208 Bacon; Stock, 205 Bacon.

Pathology and Bacteriology: F. P. Gay, 5 HP; J. N. Gay, 8 HP; Barnes, Morrison, 5 HP; Bartlett, Rusk, Rosson, Taussig, U C Medical School, S F.

Philosophy: Adams, 441 W; Rieber, 234 W; Lewis, 452 W; Stratton, 9 P; Loewenberg, 441 W; Brown, 12 P; Bridgman, 7 P; Tolman, 2 P.

Physical Education for Men: Kleeberger, Botsford, 1 HG; Magee, Wight, Andrews, Price, Trieb, 2 HG.

Physical Education for Women: Elliott, 1 H; Davis, 6 H; Guion, 2 H; Ueland, Woodford, Coleman, *Roof, Eisenhardt, *Findlay, 3 H.

Physics: Lewis, 116 S; Hall (secretary), 121 S; Pomeroy, 115 S; Minor, 201 S; Raymond, 117 S; Abbott, 205 S; Jones, Birge, 115 S; Williams, 300 S; Dershem, 204 S; Dozier, 119 S.

Physiology: Gesell, 202 PL; Maxwell, 207 PL; Burnett, 114B PL; Wulzen, 204 PL; Moore, 205 PL; Larson, 110 PL; Edson, PL; Laton, 107 PL.

Political Science: Barrows, 217 Cal; Reed, *Elliott, 432 W; 'Ehrlich, Dawson, 443 W; 'Sait, 471 W; Douglas, 431 W; Martin, 120 L.

Public Speaking: Flaherty, 422 W; von Neumayer, Watkins, 423 W; 'Drury, Boas, 414 W; Allen, 'Lutz, Duncan, 424 W; Vandervoort, Mazzera, Oddie, 'Mack, 462 W; Patten, 337 W.

Sanskrit: Ryder, 334 W.

Semitic Languages: Powell, *Popper, 421 L; Meyer, 230 W.

Slavic Languages: Noyes, Kaun, Krunich, 419 L.

Spanish: Schevill, Morley, Graham, 427 W; H. S. Turner, Buceta, Montgomery, 475 W; Bransby, 472 W; McGuire, Cornish, 425 W; Cuneo, Miller, 430 W.

Zoology: Daniel, 214 E; Ritter, Kofoid, 208 E; 'Holmes, 214 E; 'Sumner, Grinnell, 11 MVZ; Long, 321 E; Davidson, 213 E; Reagan, 105 E; Storer, 9 MVZ.

Unassigned: Teggart, 413 W.

STANDING COMMITTEES OF THE ACADEMIC SENATE AND OTHER ACADEMIC AND ADMINISTRATIVE BODIES, 1919-20

COMMITTEES OF THE ACADEMIC SENATE

Admissions:

Putnam, Thomas, Woods, Herbert F. Allen (Southern Branch), The Recorder of the Faculties (secretary).

Athletics:

M. C. Lynch, Putnam, Kleeberger, Cartwright, Sproul, Leebriek.

Barbara Weinstock Lecture:

Plehn, Wheeler, Daggett, G. P. Adams, Hart, Rieber.

Board of Research:

Merriam, Bolton, Evans, Hyde, Leuschner, G. N. Lewis, H. J. Webber, Stratton, the Dean of the Graduate Division, ex officio.

Commencement and Other Public Celebrations:

J. T. Allen, Alvarez, Deutsch, Goodspeed, Nance, von Neumayer.

Commencement Speakers:

Flaherty, Kidd, Peterson, von Neumayer, Foote, Bruce.

Committees:

Merriam, Sutton, McCormac, G. N. Lewis, Lawson, Foote.

Council of Agriculture:

The President of the University (chairman), ex officio, Dean Hunt (vice-chairman), all members of the Department of Agriculture of professorial rank, one representative from each of the departments of the University which give required courses of instruction in the College of Agriculture.

Council of Engineering and Applied Chemistry:

The President of the University (chairman) ex officio, Probert, vice-chairman (elected), the chairmen of departments which give prescribed courses in the Colleges of Mechanics, Mining, Civil Engineering, and Chemistry, together with the several professors and instructors actually engaged in giving such prescribed courses.

Courses of Instruction:

The Dean of the Faculties, the Dean of the Graduate Division, the Dean of the College of Letters and Science, the Dean of the Undergraduate Division, the Director of the Southern Branch, Hart (Vice-Chairman), Leuschner, Barrows, Hatfield, Flaherty, Probert, Mul-

ford, Kofoid, Kemp, Schilling, Haskell, Merrill, Holbrook, Hildebrand, Paetow, E. E. Hall, the Recorder of the Faculties (secretary).

Credentials:

Noble, Minor, Woods, Langille, Linforth, Burnett, Peterson, Kuno, the Recorder of the Faculties.

Disqualified Students:

The Dean of the Undergraduate Division, the Dean of the Faculties, the Dean of Women, the Recorder of the Faculties.

Editorial Committee:

Stratton, Merriam, Bolton, Lipman, Noyes, Leuschner, Daggett, Evans, Kofoid, Manager of the University Press (secretary).

Entrance Examinations:

Washburn, Putnam, McDonaki, Linforth, Morris, Woods, Kurts.

Faculty Elections:

McCormac, Nutting, W. S. Morley.

Frank J. Walton Memorial Loan Fund:

The President, the Recorder of the Faculties, Putnam.

Graduate Council:

Ex officio members: the President of the University (chairman), the Dean of the Graduate Division (vice-chairman), the Recorder of the Faculties (secretary), the Dean of the Faculties, the Dean of the Summer Session.

Appointed members: G. P. Adams, Lange, Leuschner, Merrill, Seheville, Kofoid, E. F. Lewis, Merriam, Barrows, Lipman, Plehn, Jepson, O'Neill, Evans, Rusk, Bloor, Burnett, Paetow, Schilling, Probert, Haskell, Noyes, Kurts.

Graduation Matters, Including Medal:

The Dean of the Faculties, the Dean of the College of Letters and Science, the Dean of the College of Agriculture, the Dean of the College of Mechanics, the Dean of the College of Mining, the Dean of the College of Civil Engineering, the Dean of the College of Chemistry, the Dean of the College of Commerce, the Dean of Women, the Dean of the Undergraduate Division, the Chairman of the Study-Lists Committee of the College of Letters and Science, Haskell, Linforth, Louderback, Deutsch, Weeks, Bacon.

Health:

Legge, Force, Cunningham, L. M. Moore.

Hispanic-American Relations:

Chapman, Bolton, Barrows, Richardson, Cross, Bransby, Priestley, Mackie.

Interdepartmental Relations:

Louderback, F. P. Gay, Daniel, Linforth, Schevill.

Journalistic Studies:

Drury, Wells, Kurts, Cartwright, Boyd, C. H. Raymond.

Library:

Lawson, Richardson, McMurray, Bolton, Holbrook, G. P. Adams, Wells, Plehn, Etohevery, McDonald, Gay, Lipman, the Librarian.

Library of French Thought:

Gayley, Holbrook, Stratton.

Membership:

Kower, J. T. Allen, A. T. Wright.

Military and Gymnasium:

Putnam, Washburn, Kleeberger, Nance, Crawford, Woods.

Music and Drama:

Wells, O'Neill, Kower, Stricklen, Drury, Hume (Director of the Greek Theatre).

Non-Residents:

Kidd, Reed, A. T. Wright.

Outside Relations:

Washburn, Putnam, Wells, J. T. Allen, Hildebrand, T. H. Reed, Stebbins, Davidson.

Prizes:

Noyes, Flaherty, Peixotto, Bacon, Hume.

Rhodes Scholarship:

Gayley, Merrill, McMurray.

Rules and Regulations:

Plehn, Noyes, Putnam, Leuschner, A. T. Wright, Probert, Burd, the Dean of the Faculties, the Recorder of the Faculties.

Schedule of Exercises:

The Recorder of the Faculties, Plehn, Lipman, Kower, Minor, Foote, Bruce, Buok, Fay, Leebriek.

Schools:

Thomas, Noble, Paschall, Holway, W. A. Morris, O'Neill, Washburn, Kurts, Hatfield, Horne, Woods, Kemp.

Special Students:

Woods, Washburn, Stebbins, Foote, Langille, Goodspeed, Cross, Stricklen.

Students' Affairs:

Cory, Wheeler, Rieber, Jones, Putnam, Lynoh.

Study-Lists—Public Health:

Legge, Force, Gay, Hyde, Musgrave, Stebbins.

Subject A and Students' English:

Kurts, Gardner, Morris, Sanford, Nutting.

Teachers' Certificates (sub-committee of the Faculty of the School of Education):

Richardson, Holway, Rugh, E. E. Hall, Kurts.

Undergraduate Scholarships:

C. Price, Blasdale (secretary), Wheeler, Stebbins, Putnam, Woods, Cross, Daniel, Loewenberg, Davidson, Darsie.

University Council:

Ex officio: The President of the University, Chairman; the Dean of the Faculties; the Dean of the Graduate Division; the Recorder of the Faculties (secretary).

Elected: Group I. Terms expire October 31, 1922:

Representing the College of Letters and Science: E. I. McCormac.

Representing the College of Commerce: H. R. Hatfield.*

Representing the College of Agriculture: Thomas Forsyth Hunt.

Representing the College of Mining: F. H. Probert.

Representing the Lick Astronomical Department: R. G. Aitken.

Representing the Hastings College of the Law: (no representative named).

Representing the Medical School: H. M. Evans, George H. Whipple.

Representing the College of Dentistry: G. S. Millberry, A. H. Suggett.

Representing the California College of Pharmacy: F. T. Green, F. W. Nish.

Representing the California School of Fine Arts: L. F. Randolph, E. Spencer Macky.

Group II. Terms expire October 31, 1920:

Representing the College of Letters and Science: E. P. Lewis, J. H. Hildebrand.

Representing the College of Civil Engineering: C. G. Hyde.

Group III. Terms expire October 31, 1921:

Representing the College of Letters and Science: J. C. Merriam, L. J. Richardson.

Representing the College of Chemistry: G. N. Lewis.

Representing the College of Mechanics: B. M. Woods.

University Extension Administrative Board:

Daggett, Bolton, Merriam, Rieber, Hart, Woods, Putnam, Haskell, Cross, Holbrook, Stebbins, the Director of University Extension, the Comptroller.

University Meetings:

Cartwright, Steindorff.

University Welfare:

Jones, Merrill, Senger, Bradley, Rieber, J. T. Allen.

Welfare and Privilege of Members of the Faculty:

McMurray, Hildebrand, Wells, Burd, Hyde, Stratton, Deutch.

*Term expired October 31, 1919; successor not yet elected.

COMMITTEES OF THE GRADUATE COUNCIL

Thompson Scholarships:

Haskell, Schilling, G. P. Adams, the Dean
of the Graduate Division.

*Graduate Scholarships and Fellowships (except
as otherwise noted):*

E. P. Lewis, Merriam, Paetow, Plehn,
Schevill.

Preston School of Industry Fellowships:

The Dean of the Graduate Division,
Daggett, Superintendent of the Preston
School, Peixotto, Lipman, W. Brown.

Administrative Committee:

The Dean of the Graduate Division, Paetow,
Lange, Kurts, Probert.

Faculty Research Lectures:

Former Lecturers: Gay, Schevill, Merriam,
Bolton, Leuschner.

Hitchcock Lectures:

E. P. Lewis, Rusk, the Dean of the Grad-
uate Division.

COMMITTEES OF THE COUNCIL OF AGRICULTURE

Administration:

Mulford, Webber, Crocheron.

Library:

Hoagland, Kern, Essig, Mead, Woll,
Whitten.

Courses of Study and Schedule:

Shaw, Smith, Roadhouse.

Graduate Students:

Lipman, Kennedy, Griffin.

Agricultural Journal:

Coit, Wickson, Gregg, Shaw, Crocheron.

Summer Session:

Gilmore, Griffin, Haring, Dougherty, Wood-
worth.

Editorial:

Lipman, Gilmore, Woll.

Experimental Fertilizer Tests:

Burd, Coit, Lipman, Gilmore, Webber.

Correspondence Courses:

Griffin, G. H. Hart, Bioletti.

Study-Lists:

Mulford, Smith, Babcock, Shaw, True,
Voorhies.

Student Employment:

Voorhies, Clarke, Van Norman, Heads of
Welfare Committee at Berkeley and
Davis.

COMMITTEES OF THE ENGINEERING COUNCIL

Executive:

Noble, Foote, LeConte, E. E. Hall, Lawson,
Probert, Hildebrand.

Engineering Sections:

LeConte, Weeks, Foote, Kower, Minor.

Examinations for Freshman Engineers:

Minor, Alvarez, Bray, Bernstein.

Study-Lists:

1. Chemistry—O'Neill (chairman), and
Bray, with power to add not more than
one other name.
2. Civil Engineering—Foote (chairman),
Etcheverry, Alvarez.
3. Mechanics—Cory, LeConte, Raber.
4. Mining—Probert, Hersam, Weeks.

COMMITTEES OF THE FACULTY OF THE COLLEGE OF LETTERS AND SCIENCE

*Classification and Graduation in the Course in
Architecture:*

Howard, Hays, Alvarez, Perry.

Executive:

Dean of the College of Letters and Science
(chairman), Haskell (vice-chairman),
E. P. Lewis, Hutchinson, G. N. Lewis,
Kemp, Putnam, Kurts, Linforth, Tur-
ner, W. A. Morris, G. P. Adams,
Stebbins.

Honors at Graduation:

Linforth, Lehmer, Paetow, Hildebrand.

Study-Lists:

The Dean of the College of Letters and
Science, Deutch, Stebbins, Putnam,
Washburn, Paschall, Burnett, C. Price,
Noble, Daniel, Minor, Goodspeed,
Perry, Leebrick, Evans, Van Nostrand,
Lynch, the Recorder of the Faculties
(secretary).

Vocational Courses for Women:

Stebbins, Peixotto, Mulford, Hyde, Legge,
Patterson, Morgan, Morrow, Leonard,
Cross.

EXECUTIVE COMMITTEE OF THE COLLEGE OF COMMERCE

Hatfield, Cross, Plehn, Daggett, W. Brown,
Bernstein, C. H. Raymond.

CLASS OFFICERS, JANUARY-MAY, 1920

SENIOR CLASS (1920)

President, Robert E. Connolly 2647 Durant av	Bkly 102	Treasurer, Raymond W. Cortelyou 1830 Walnut st	Bkly 7316W
Vice-President, Ruth LeHane 2546 Chilton way	Bkly 691J	Yell Leader, LeRoy C. Bush 2500 College av	Bkly 5942
Secretary, Harry A. Godde 2882 College av	Bkly 1134		

JUNIOR CLASS (1921)

President, Edith Cordé 2519 Parker st	Bkly 1814W	Treasurer, Wayne J. Peacock 2200 Piedmont av	Bkly 6681
Vice-President, Arlington C. White 2500 College av	Bkly 5942	Yell Leader, Carl E. Hansen 2616 Virginia st	Bkly 6716
Secretary, Marion McEneaney 2621 Regent st	Bkly 3755W		

SOPHOMORE CLASS (1922)

President, Reginald K. Hoit 2501 Ridge rd	Bkly 1835	Treasurer, Cassell Ryan 2636 Dwight way	Bkly 491W
Vice-President, Kathryn Pomeroy 1715 LeRoy av	Bkly 2851	Yell Leader, Robert S. Lamborn 2616 Virginia st	Bkly 6716
Secretary, Reginald L. Vaughn 2610 Durant av	Bkly 7804		

FRESHMAN CLASS (1923)

President, Edward H. Alling, Jr. 2701 Hearst av	Bkly 2421	Secretary-Treasurer, Gordon N Scott 2415 Bowditch st	Bkly 8650J
Vice-President Marjorie Van Sittert 2435 Hilgard av	Bkly 6404	Sergeant-at-Arms, Charles F. Erb 2502 Dana st	Bkly 423J

ASSOCIATED WOMEN STUDENTS, 1919-20

OFFICERS

President, Katharine Schwaner, '20 2829 Carlton st	Bkly 1673W	Treasurer, Helen Atkisson, '21 2821 Bancroft way	Bkly 1765
Vice-President, Julia Hamilton, '20 2621 Rose st	Bkly 2788	Athletic Manager, Geraldine Pratt, '20 1553 LeRoy av	Bkly 4178W
Secretary, Ruth Barnes, '21 2545 Dwight way	Bkly 8209J		

EXECUTIVE COMMITTEE

The officers of the Association and Miss Lucy Ward Stebbins, Dean of Women 2781 Durant av	Bkly 7386	Doris Peoples, '20, Representative on A. S. U. C. Executive Committee 2410B Bancroft way	Bkly 2479
Madeleine Benedict, '20, Representative on A. S. U. C. Executive Committee 2725 Channing way	Bkly 7950	Aline Verrue, '20, Woman's Editor, <i>Daily Californian</i> 2421 LeConte av	Bkly 3062
Beatrice Blanchard, '20, Parthenia Manager 2405 Prospect st	Bkly 6076		

EXECUTIVE COMMITTEE OF THE ASSOCIATED STUDENTS, 1919-20

Leslie W. Irving, '20, President 2601 Durant av	Bkly 23	Paul L. Davies, '21 2634 Bancroft way	Bkly 1276
Albert S. Hubbard, '20, Vice-President 2620 Bancroft way	Bkly 8870	Albert B. Sprott, '21 2345 College av	Bkly 62
William E. Vaughan, '21, Secretary 2610 Durant av	Bkly 7804	Chaffee E. Hall, '10, Alumni Representative 14 Sansome st, S F	Sutr 2400
Madeleine M. Benedict, '20 2725 Channing way	Bkly 7950	Matthew C. Lynch, Faculty Representative 2617 Etna st	Bkly 1041
Doris Peoples, '20 2410s Bancroft way	Bkly 2479		

THE CENTRAL COUNCIL OF THE ALUMNI ASSOCIATION

OFFICERS

Wigginton E. Creed, A.B., 1898, President Balboa bldg, S F	Robert G. Sproul, B.S., 1913, Treasurer 218 California Hall
Gurney Newlin, B.L., 1902, Vice-President 735 Title Insurance bldg, Los Angeles	D. O. Peters, A.B., 1915, J.D., 1917, Secretary 201 California Hall
Warren Gregory, A.B., 1887, LL.B. 1890, Vice-President Merchants Exchange bldg, S F	

COUNCILLORS

Frank Otis, A.B. 1873 1208 Merchants Exchange bldg, S F	Samuel C. Irving, A.B. 1879 1322 Shattuck av
Oscar Sutro, B.L. 1894 200 Bush st, S F	William H. Waste, Ph.B. 1891 2222 Durant av
Douglas Brookman, B.L. 1910 838 Market st, S F	Esther B. Phillips, A.B. 1909 6459 Benvenue av, O
Chaffee E. Hall, B.L., 1910 14 Sansome st, S F	Mrs. Warren Olney, Jr., A.B. 1895 2702 Dwight way
Herman Phleger, B.S. 1912 706 Crocker bldg, S F	Harry East Miller, B.S. 1885 305 Palm av, O

CLUB HOUSE LOAN FUND COMMITTEE

Mrs. May L. Cheney, Chairman 102 California Hall	Miss Jessica B. Peixotto Cloyne court
James T. Allen, Secretary-Treasurer 37 Mosswood rd	Mrs. Benjamin Ide Wheeler 2425 Ridge rd
Miss Lucy W. Stebbins 205 California Hall	Mrs. L. J. Richardson 2415 College av
Thomas M. Putnam 207 California Hall	Miss Harriet E. Whirlow 2526 Hilgard av
Wm. Carey Jones 212 Boalt Hall	Mrs. A. P. Black 2915 Fillmore st, San Francisco
George C. Edwards 2546 Dana st	Mrs. R. S. Holway 2577 Buena Vista way
Dr. Mary B. Ritter La Jolla	

OFFICERS AND ASSISTANTS

- Abbott, Mrs. M. J. G., Librarian, Citrus
Exper. Station
359 E Fifth st, Riverside
- †Abbott, R. B., Instr. in Physics
207 S-1808 Cedar st Bkly 2084W
- Abramopoulos, C. A., Vol. Asst., Medicine
(M)
Phelan bldg, S F Krny 5088
- †Adams, F., Prof. of Irrigation Investiga-
tions.
220 Berkeley Federal bldg-2527 Etna st
Bkly 7623W
- †Adams, G. P., Prof. of Philosophy
441 W-M W, 8-8:30; Tu Th, 10:30-11
711 Southdown av Bkly 7012W
- Adams, J. M., Assoc. Prof. of Physics (S)
622 W av 53, Los Angeles
- †Adams, R. L., Prof. of Farm Management
309 Hilgard-850 Alcatraz av, O
Pied 5794W
- Adriance, J. W., Instr. in Agr. Extension
Chamber of Commerce, Stockton
- †Aitken, E. G., Astronomer (LO)
Mt. Hamilton
- Aiton, A. S., Asst., History
181 L-1240 Broadway, A Ale 2016
- †Albright, Mrs. G. P., Assoc. Prof. of Paint-
ing and Drawing (A)
999 California st, S F Park 7986
- Alderton, Miss N. M., Asst., Mathematics
420 W-1711 Allston way
- Alexander, Miss M. F., Milk Testing Asst.,
Agriculture
University Farm, Davis
- Aljets, J. W., Asst. to Supt. of Grounds
and Buildings
822 Thirty-third st, O Pied 1093J
- Allen, Miss A. H., Instr. in Public Speak-
ing
424 W-2237 Ellsworth st
- †Allen, Mrs. E. M., Instr. in Commercial
Practice (S)
3206 Castro st, Los Angeles
- †Allen, F. W., Asst. Prof. of Pomology
University Farm, Davis
- Allen, H. F., Asst. Prof. of English (S)
510 N Virgil av, Los Angeles 597671
- †Allen, H. W., Asst. Clinical Prof. of Medi-
cine (M)
240 Stockton st, S F Dgls 3600
- †Allen, J. T., Prof. of Greek
435 W-37 Mosswood rd Bkly 1209W
- Allen, L. W., Asst., Military Science and
Tactics
2248 Telegraph av Bkly 9011
- Allen, W. E., Biologist and Publicity Sec-
retary, Scripps Institution
La Jolla
- Almqvist, J. A., Asst., Chemistry
2836 College av Bkly 2431
- Alvarez, A. C., Assoc. Prof. of Civil En-
gineering
306 CE-1909 Dwight way Bkly 5356W
- Alvarez, H. H., Instr. in Extracting (D)
502 Liebes bldg, S F Sutr 4437
- †Alvarez, W. C., Instr. in Research Medi-
cine (HF) (M)
177 Post st, S F Sutr 618
- Amesbury, Miss R. M., Laboratory Tech-
nician, Agriculture
University Farm, Davis
- †Amundsen, E. O., Instr. in Agr. Extension
East Auburn 51J
- †Anderson, A. E., Instr. in English
412 W-2811 Buena Vista way
Bkly 8973J
- Anderson, Miss F., Stenographer, Presi-
dent's Office
2314 Hilgard av Bkly 4033W
- Anderson, Miss V., Stenographer, Presi-
dent's Office
2814 Hilgard av Bkly 4033W
- Andrews, Miss A. R., Teaching Fellow,
Zoology
217 E-2531 Ellsworth st Bkly 4437J
- †Andrews, C. W., Asst. in Wrestling
HG-2240 McKinley av Bkly 1412
- †Angior, C. W., Teacher of Manual Arts
(S)
1011 S Columbus av, Glendale
- †Ansell, P. L., Roentgenologist, Infirmary
6308 Acacia av, O Lksd 2808
- *Appleton, Miss V. B., Instr. in Pediatrics
(M)
191 Frederick st, S F Park 2060
- Armstrong, Mrs. F. M., Office Asst. and
Stenographer, Home Economics
1531A Arch st

- †Armstrong, J. E., Instr. in Stenography and Typewriting on the Flood Foundation
21 W-6416 Regent st, O Pied 6585J
- *Arnold, H. R., Student Fellow (HF) (to Dec. 31, 1919)
1281 Second av, S F Snt 623
- †Arntzen, V., Expert Mechanic, Civil Engineering Laboratory
2916 Telegraph av Bkly 242
- Ash, Miss R. L., Asst. Clinical Prof. of Pediatrics and Medicine (M)
U C Hospital, S F Snt 3600
- Aster, A. K., Asst., Physics
205 S-910 Chestnut st, A Ala 2219J
- *Atsatt, Miss S. R., Instr. in Biology (S)
845 S Serrano av, Los Angeles 568785
- Ayer, Miss M. S., Secy., Dept. Physical Education for Men
2209 Telegraph av, O Oakd 6742
- †Baade, H. J., Asst. Prof. of Agr. Extension Court House, Napa
- †Babcock, E. B., Prof. of Genetics
314 Hilgard-1512 Grove st Bkly 4232J
- †Bachman, H., Asst. Mechanician, Mining
1605 Milvia st
- †Bacon, L., Asst. Prof. of English
411 W-2241 Piedmont av Bkly 6398
- Bailey, Miss A. H., Clerk, Agriculture
803 Budd-1511 Edith st Bkly 2270W
- Bailey, Miss E. R., Stenographer, Entomology
2632 Channing way Bkly 5025J
- Bailey, T. L., Teaching Fellow, Geology and Mineralogy
102 Bacon-2600 Bancroft way Bkly 1901
- †Baird, H. S., Asst. Prof. of Deiry Industry University Farm, Davis
- Baird, Miss M. A., Asst. in English
410 W-1630 LeRoy av
- Baldwin, W. I., Asst. Clinical Prof. of Orthopedic Surgery (M)
135 Stockton st, S F Sutr 2288
- Ball, Miss L., Stenographer, Comptroller's Office
114 Cal-1130 Delaware st Bkly 8556J
- Ballard, Miss C. H., Physiotherapist (Hosp)
8 Twenty-fifth av, S F Pac 8878
- †Ballentine, J. A., Asst. Prof. of Law (H)
724 Monadnock bldg, S F Krny 621
- †Ballou, F. H., Technical Asst., Zoology
218 E-1025 Ordway st
- Bannan, Miss H. G., Asst. to Dean of Graduate Division
209 Cal-495 Jean st, O Oakd 3311
- †Barker, L., Asst. to Prof. of Mil. Science and Tactics
2624 Lombard st, S F
- †Barnes, W. C., Asst., History
131 L-2728 Garber st Bkly 8746W
- Barnes, W. H., Instr. in Bacteriology (M)
5 HP-2436 Channing way Bkly 6433W
- Barnett, J. W., City Buyer, Comptroller's Office
1955 San Pablo av, O Oakd 2404
- †Barney, Mrs. E. L., Instr. in Surgery (M)
306 Irving st, S F Snt 2439
- †Barney, T. R., Asst., Orthopedic Surgery (M)
306 Irving st, S F Snt 2439
- †Barnhart, E. W., Lectr. in Economics
110 L-1512 La Loma av Bkly 4874W
- Barnhart, Miss M., Instr. in Music (S)
718 S Alvarado st, Los Angeles 50954
- †Barnhart, P. S., Collector and Curator of Aquarium, Scripps Institution for Biological Research
La Jolla LJ 36J12
- †Barnier, L., Instr. in French
472 W-1589 LeRoy av Bkly 2002J
- Barovetto, G., Field Asst., Viticulture University Farm, Davis
- †Barrett, J. T., Prof. of Plant Pathology, Acting Director of the Citrus Experiment Station, and Acting Dean of the Graduate School of Tropical Agriculture
709 E. Eighth st, Riverside Men 1351J
- †Barrows, D. P., President of the University and Prof. of Political Science
217 Cal-daily, exc. Tu, 10-10:30
President's House Bkly 614
- †Bartlett, E. I., Instr. in Surgical Pathology (M)
291 Geary st, S F Sutr 1892
- †Bartlett, L., Lectr. in Dental Jurisprudence (D)
Claus Spreckels bldg, S F Krny 5750
- Bassett, Miss D. Q., Occupational Therapist (Hosp)
5844 Ocean View dr, O Pied 6688W
- East, Miss V. G., Stenographer, Recorder's Office
5420 Bryant av, O Pied 6462
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176 Bandini av, Riverside
- Bates, Miss A., Stenographer, Dept. Agr. University Farm, Davis
- Bates, Mrs. H. P., Asst., Economics
115 L-2440 Hilgard av Bkly 7126W
- Bates, Miss P., Asst., Stenography
1634 Walnut st Bkly 1730W
- †Bates, W. E., Lectr. in Hygiene (FS)
University Farm, Davis
- Baugh, Miss R. E., Instr. in Geography (S)
55 N Lake av, Pasadena
- *†Baxter, F. S., Asst., Otology, Rhinology, and Laryngology (M)
- †Beach, J. R., Instr. in Veterinary Science
University Farm, Davis
- †Bean, G. L., Clinical Prof. of Operative Dentistry and Dental Porcelain (D)
350 Post st, S F Sutr 289
- Beard, Miss F., Teaching Fellow, Zoology
217A E-2688 Russell st Bkly 3419J
- Beattie, Miss M. I., Instr. in Public Health
HP-2650 Parker st Bkly 5094J
- Beck, A. G., Technical Asst., Physiology (Hosp)
2544 Buena Vista way
- Beck, Miss K. S., Instr. in Geography (S)
- *Beckett, Miss G., Instr. in Home Economics (S)
- †Beckett, S. H., Assoc. Prof. of Irrigation Practice
University Farm, Davis
- †Beckman, F. E., Asst. Prof. of French and Spanish (S)
562 N Kenmore av, Los Angeles
- †Bell, C. H., Instr. in German
403 W-2301 Ward st Bkly 7879W
- †Bell, G. W., Asst. Prof. of Law (H)
1546 Euclid av Bkly 4005J
- Bell, Miss J. F., Secretary, Dept. Pediatrics (Hosp)
116 Downey st, S F Park 8441
- Bell, Miss W. A., Asst. Cashier, Agriculture
University Farm, Davis
- †Belton, H. L., Instr. in Shopwork
University Farm, Davis M45W
- †Benedict, H. H., Accountant, Comptroller's Office
114 Cal-5821 Ocean View dr, O
Pled 5046J
- Bennett, J. P., Instr. in Pomology
333 Hilgard-2807 Hearst av Bkly 6815
- Bennett, Miss M. L., Stenographer, Appointment Secretary's Office
102 Cal-23 Berkshire apts Bkly 3428
- Bennett, Miss S., Senior Asst., Library
2614 Hilgard av Bkly 3335
- Benson, J. P., Asst. Prof. of Agr. Extension
Farm Advisor's Office, Holland bldg, Fresno
- †Benton, R., Instr. in Agr. Education
302 Budd-2527 LeConte av Bkly 8498
- †Berg, W. E., Asst. to Director and Supt. of Classes for Teaching, Dept. Agr.
303 Budd-1329 Oxford st
- Bergfried, Miss H., Asst., Botany
4 B-1933 Berryman st Bkly 2829W
- Bernays, Miss E. M., Asst. Supervisor of Practice (S)
- Bernhardt, Miss T. B., Stenographer, Agriculture
100 AH-467 Forty-first st, O Pied 1271
- Bernstein, B. A., Asst. Prof. of Mathematics
455 W-Faculty Club Bkly 2855
- Berringer, E. J., Asst., History
131 L-2532 Regent st
- Bertron, Miss E. C., Stenographer, Office of Univ. Examiner
2410 College av Bkly 6656
- †Best, E. J., Instr. in Medicine (M)
209 Post st, S F Sutr 290
- †Bettencourt, F. C., Clinical Instr. in Prosthetic Dentistry (D)
822 Clement st, S F Pac 5296
- Betts, G. A., Reader, Mathematics
2616 Virginia st Bkly 6716
- †Bichowsky, F. R., Research Assoc. in Chemistry
1 Gilman-397 Moraga av, P Pied 2212J
- †Bine, R., Instr. in Medicine (M)
350 Post st, S F Krny 296
- Binkley, R. W., Asst., Surgery (M); Asst. Resident University Hospital (Hosp)
U C Hospital, S F Snt 8600
- †Binkley, W. C., Chief Asst., History
30 W-2420 Ellsworth st Bkly 6902W
- *†Bioletti, F. T., Prof. of Viticulture and Enology
Walnut Creek
- †Birge, R. T., Instr. in Physics
115 S-1639 La Vereda st Bkly 7671W

- †Bjork, D. K., Teaching Fellow, History
1328 Oxford st
- Black, H. A., Teaching Fellow, Political
Science
2522 Ridge rd Bkly 5950
- †Blake, W. F., Instr. in Ophthalmology
(M)
516 Sutter st, S F Grd 229
- †Blanchard, F. T., Assoc. Prof. of English
and Asst. Director in charge of In-
struction, Univ. Extension
301 Cal-2526 Hill court Bkly 8448W
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357 Court House, Los Angeles
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221 Chem-2514 College av Bkly 5146J
- Blewett, Miss M., Instr. in Music (S)
895 Kensington rd, Los Angeles 53858
- †Bliss, H. H., Asst. Prof. of Technical Sub-
jects, University Extension (resigned
Jan. 31, 1920)
3010 Colby st Bkly 7136W
- †Bloor, W. R., Prof. of Biochemistry (M)
209 PL-daily, 10-11
1540 Hawthorne ter Bkly 8854J
- †Blum, S., Assoc. Prof. of Economics
22 W-1611 Euclid av Bkly 1185J
- *Boas, G., Asst. Prof. of Forensics
414 W-2704 Virginia st Bkly 4695W
- Boddy, Miss F., Field Supervisor and
Instr., Public Health Nursing (Hosp)
2221 Atherton st Bkly 2085J
- Boelter, L. M. K., Instr. in Electrical En-
gineering
32 M-2216 Parker at Bkly 8331
- †Boericke, W., Clinical Prof. of Homeo-
pathic Materia Medica (M)
391 Sutter st, S F Krny 3776
- †Bolin, J. S., Instr. in Education
315 L-1547 Shattuck av Bkly 1952J
- †Bolton, H. E., Prof. of American History
and Curator of the Bancroft Library
133 L-1526 Scenic av Bkly 5045J
- Bond, L. A., Teaching Fellow, Geology and
Mineralogy
2 Bacon-2237 Durant av
- Bonner, Miss M. Y., Asst. in English
410 W-1549 LeRoy av Bkly 8598
- Bonnet, L., Asst., Viticulture
835 Hilgard-2407 Fulton st
Bkly 8885W
- †Boone, R. G., Prof. of Education
316 L-2831 Benvenue av Bkly 6848
- †Botsford, C. S., Instr. in Physical Educa-
tion
2 HG-2207 Rose st Bkly 9463W
- Botsford, Mrs. M. E., Asst. Clinical Prof.
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ment (Hosp)
807 Francisco st, S F Frkn 3370
- Bougher, B. O., Instr. in Agr. Extension
622 Third st, Eureka
- †Bourne, F. E., Helper in Geology
2337 Blake st
- †Boyd, A., Instr. in English
404 W-2243 College av Bkly 6659W
- †Boyers, L. M., Asst. Physician for Men
805 Indian Rock av Bkly 4958
- †Bradley, C. B., Prof. of Rhetoric, Emeritus
2689 Durant av Bkly 4126W
- Brady, Miss E. M., Stenographer and Li-
brarian, Zoology
206 E-1712 Jayne st Bkly 4140W
- †Branch, G. E. K., Asst. Prof. of Chemistry
110 Chem-2416 Martinez av
- †Brandegge, T. S., Honorary Curator in the
Herbarium
308 HM
- Brandt, Miss H. A., Clerical Asst., Library
624 Mariposa av, O Pied 1260W
- †Bransby, C., Asst. Prof. of Spanish
472 W-1604 Oxford at Bkly 4635W
- †Bray, W. C., Prof. of Chemistry
104 Gilman-2708 Virginia st
Bkly 2259W
- *Breck, Miss E. J., Lectr. in the Teaching
of English
3008 Summit at, O Oakd 2802
- †Breitstein, L. I., Instr. in Obstetrics (M);
Chief S F Hospital Obstetrical Service
(Hosp)
350 Post st, S F Dgls 404
- †Breitwieser, J. V., Assoc. Prof. of Educa-
tion
315 L-1512 Spruca at Bkly 3439W
- Brewer, J. M., Assoc. Prof. of Education
(S) (resigned Sept. 12, 1919)
- Bridgman, Miss O. L., Asst. Clinical Prof.
of Abnormal Psychology (M); U C
Hospital Service (Hosp)
7 P-498 Carl st, S F Snat 1975
- †Briggs, L. H., Instr. in Medicine (M);
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(Hosp)
240 Stockton st, S F Sutr 6599
- Briols, L. F. D., Instr. in French in Los
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524 N. Chester av, Pasadena

- †Britton, E., Storekeeper, Comptroller's Office
1739 Blake st
- Brockway, F., Instr. in Mechanic Arts (S)
- †Brodeur, A. G., Asst. Prof. of English Philology
405 W-125 Shasta st Bkly 8721J
- Brody, S., Asst. in Biochemistry (M)
2224 Chapel st
- Bronson, Miss E., Vol. Asst., Pediatrics (M)
Galen bldg, S F
- Brooks, Mrs. A. P., Instr. in Fine Arts (S)
200 S Vermont av, Los Angeles 58551
- †Brower, R. J., Instr. in Drawing; Reader in Mechanical Drawing, Univ. Extension
205 D-2232 Haste st Bkly 149W
- Brown, Miss A. E., Librarian, University Farm School (FS)
University Farm, Davis
- Brown, Mrs. B., Stenographer, Mil. Science and Tactics
2514 Bancroft way Bkly 5062J
- Brown, Miss H., Secy., Class Bureau, Los Angeles Office, Univ. Extension
Metropolitan bldg, Los Angeles
- †Brown, S. M., Asst. Chemist, Citrus Experiment Station
941 Walnut st, Riverside Msn 1008
- Brown, Miss V., Stenographer, Agriculture
2620 College av Bkly 467J
- †Brown, W., Asst. Prof. of Psychology
12 P-2558 Benvenue av Bkly 6410J
- †Brownell, Mrs. A. A., Index Clerk, Comptroller's Office
110 Cal-2845 Fulton st Bkly 7540W
- †Broyles, Mrs. M. W., Instr. in Nursing and Supt. of Dental Hygienists (D)
790 Page st, S F Mrkt 5046
- †Bruc, D., Assoc. Prof. of Forestry
304 Hilgard-1333 Walnut st Bkly 1719J
- †Bruce, H. L., Assoc. Prof. of English Composition
450 W-2422 Hilgard av Bkly 5577J
- †Bruhna, H. J., Clinical Instr. in Operative Dentistry (D)
185 Stockton st, S F Krny 2468
- †Brunn, H., Asst. Clinical Prof. of Surgery (M); Chief of S F Hospital Service (Hosp)
350 Post st, S F Sutr 812
- Bryan, Miss E. S., Asst. Prof. of Public Health Nursing (M); Supervisor of Public Health Nursing Instruction (Hosp)
2307 Hearst av Bkly 6815
- †Bryan, L., Instr. in Roentgenology (M)
60 Santa Monica way, S F Snt 1020
- †Bryant, E. N., Asst. Mechanic, Civil Engineering
112 CE-2400 Durant av Bkly 7954
- †Bryant, H. C., Economic Ornithologist, Calif. Museum Vertebrate Zoology
5 MVZ-2523 Hill court Bkly 5086W
- †Bryant, V. C., Asst. Prof. of Agr. Extension
105 AH-2220 Bancroft way Bkly 4603J
- Buceta, E., Asst. Prof. of Spanish
475 W-Faculty Club Bkly 2855
- Buck, T., Asst. Prof. of Mathematics
454 W-Faculty Club Bkly 2855
- †Buehrer, T. F., Teaching Fellow, Chemistry
2400 Dwight way Bkly 1322J
- Bull, E. C., Asst. in Orthopedic Surgery (M); Asst. Visiting Orthopedic Surgeon, Out-Patient Dept., U C Hospital (Hosp)
- †Bumstead, F. M., Supt. of Circulation, Library
2529 Hilgard av Bkly 2261
- †Bunnell, Mrs. D. L., Departmental Librarian, Agriculture
411 L-2502 Bancroft way Bkly 1848
- †Bunnell, G. W., Prof. of Greek, Emeritus
2901 Telegraph av, O Oakd 5150
- Burchfiel, B. M., Asst., Chemistry
221 Gilman-2303 Durant av Bkly 8708W
- Burgess, C. G., Asst., Poultry Husbandry
University Farm, Davis
- †Burd, J. S., Prof. of Agricultural Chemistry
9 FCL-81 Parkside dr Bkly 8258J
- Burnett, T. C., Asst. Prof. of Physiology (M)
114B PL-Faculty Club Bkly 2855
- Burke, Miss G. S., Secy., Pathology (M)
1847 Bancroft way Bkly 6883W
- Burrell, C. J., Instr., Agriculture
University Farm, Davis
- Burrill, Mrs. J. B., Matron and Clerk, Dept. Physical Education for Women
5 H-2670 Parker st Bkly 809
- Burton, A. M., Instr. in Agr. Extension
Martinez

- Burton, Miss R., Clerk, Comptroller's Office
220 Cal-2031 Berryman st Bkly 8225J
- Buster, M. W., Asst., Agr. Extension
106 AH
- †Butterfield, H. M., Instr. in Agr. Education
302 Budd-2955 Pine av
- †Caglieri, G. E., Instr. in Surgery (M);
Visiting Physician S F Hospital
(Hosp)
21 Columbus av, S F Krny 5896
- Cairns, Miss L., Instr. in Hygiene
16 Inf-2729 Elmwood av Bkly 507
- †Cajori, F., Prof. of the History of Mathe-
matics
456 W-2844 Webster st Bkly 4928W
- †Calhoun, G. M., Asst. Prof. of Greek
474 W-1056 Euclid av Bkly 8477W
- †Calkins, J. U., Jr., Lectr. in Law
213 Boalt-2886 Derby st Bkly 6906J
- Calvi, P. J., Asst., Surgery (M)
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- *†Camp, W. R., Assoc. Prof. of Rural Insti-
tutions
Mus. AH-1618 La Vereda av
Bkly 7229W
- Campbell, Mrs. G. L., Recorder, Univ. Ex-
tension
301 Cal-2162 Vine st Bkly 4868
- Campbell, Miss G. M., Asst., Mathematics
420 W-2580 Ridge rd Bkly 7084
- Campbell, Miss M. M., Training Teacher
in Charge of Ninth Grade (S)
5653 Virginia av, Los Angeles
Holly 4375
- †Campbell, W. W., Director and Astronomer
(LO)
Mt. Hamilton
- Camper, Miss E. L., Junior Asst., Library
1516 LeRoy av Bkly 1755
- Carey, D. H., Instr. in Olericulture
University Farm, Davis
- †Carey, H. B., Prof. of Materia Medica,
Botany, and Pharmacognosy (Ph);
Instr. in Anatomy, Histology, Materia
Medica, and Therapeutics (D)
1294 Ninth av, S F Snt 1014
- Carmichael, Miss H., Bookkeeper, Agricul-
ture
University Farm, Davis
- Carmichael, Miss R. M., Reader, History
2618 Haste st Bkly 6102W
- *†Carnoy, A. J., Prof. of Romanic Philology
University of Louvain, Belgium
- †Carpenter, F. A., Lectr. in Meteorology (S)
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- *Carrier, Miss E. B., Student Fellow (HF)
100 Judah st, S F Snt 1272
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culture
978 W Seventh st, Riverside
- Carroll, W. F., Asst. in Agr. Extension
Court House, Napa
- Carson, Miss R. E., Technician, Pathology
and Bacteriology (M)
3229 Fourteenth st, O
- *Carter, W. E., Voluntary Asst., Pediatrics
(M)
794 Fifteenth av, S F
- †Cartwright, M. A., Asst. to the President
and Manager of the University Press
217 Cal-2718 Hillegass av Bkly 8568J
- Castle, C., Instr. in Animal Husbandry
University Farm, Davis
- †Chamberlain, J. F., Asst. Prof. of Geo-
graphy (S)
38 N Hudson av, Pasadena
Fair Oaks 1890
- †Chamberlain, W. E., Instr. in Roentgenol-
ogy (M); Chief, Hahnemann Hospital
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391 Sutter st, S F Sutr 2937
- Chandler, Miss H. C., Instr. in Fine Arts
(S)
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American and California History
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- Cheney, M. C., Asst. in Medicine (M)
2241 Colgate av
- *†Cheney, Mrs. M. L., Appointment Secre-
tary
1010 U st, Sacramento
- †Cherry, F. H., Asst. Prof. of Electrical En-
gineering
4 M-1429 Oxford st Bkly 7866J
- Chilton, Miss O., Instr. in Home Econom-
ics (S)
2326 Scarff st, Los Angeles 25406
- Chittenden, Mrs. A. B., Assoc. Prof. of
Painting and Drawing (A)
2201 California st, S F West 4398
- Chrisman, Miss R., Asst., Graphic Art
200 D-2421 LeConte av Bkly 3062
- Christiansen, Mrs. R., Technician, Clinical
Laboratories (M)
1646 Walnut st

istie, A. W., Instr. in Agr. Chemistry
37 Hilgard-2311 Rose ter

rk, B. L., Asst. Prof. of Palaeontology
103 Bacon-2232 Blake st Bkly 1069W

rk, G. W., Instr. in Pharmacology (M)
109 PL-1148 Sutter st Bkly 7830J

rk, J. T., Asst. Prof. of French
163 W-2214 Russell st Bkly 213

rk, Miss L. D., Instr. in Agr. Extension
110 Hearst av Bkly 1908

rk, Miss M. B., Stenographer, Comp-
troller's Office
109 Cal-2305 Bancroft way Bkly 7461

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11 El Camino Real Bkly 6798W

rk, R. H., Instr. in English
114 W-11 El Camino Real Bkly 6798W

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troller's Office
107 Cal-2305 Bancroft way Bkly 7461

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1435 Oregon st Bkly 5661J

rke, Miss C. D., In charge of files, Univ.
Extension
1539 Durant av Bkly 8842W

rke, W. T., Prof. of Agr. Extension and
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108 AH-2317 LeConte av Bkly 1980W

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115 Hilgard-1224 Oxford st Bkly 8726J

ary, E. W., Instr. in Surgery (M)
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W, Miss M., Technician, Ophthalmology
(M)
123 Third av, S F Pac 9057

se, Miss K. M., Lectr. in Physical Train-
ing (S)
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sta, Miss E. A., Secretary, Dept. Gyn-
ecology and Obstetrics (M)
1500 Durant av Bkly 9331

in, H. J., Vol. Asst. in Otology, Rhin-
ology and Laryngology (M)
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t, J. E., Prof. of Citriculture
139 Hilgard-1913 Henry st Bkly 872J

by, Mrs. I. F., Senior Asst., Library
1119 Addison st

by, W. E., Lectr. in Law of Mines and
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107 Boalt-2901 Channing way Bkly 1773

le, Miss A. M., Senior Asst., Library
3502 Bancroft way Bkly 1848

Coleman, Miss C. W., Instr. in Physical
Education
2 H-2639 College av Bkly 5140J

†Coleman, G. A., Instr. in Entomology
9 AH-924 Spruce st Bkly 7732W

Collier, Miss M., Asst. Prof. of Mathe-
matics (S)
937 N Heliotrope dr, Los Angeles 599151

Collins, J. L., Instr. in Genetics
314 Hilgard-1508A Oxford st

Collins, Mrs. W. S., Instr., Agriculture
University Farm, Davis

Compton, Miss D., Asst. Recorder, Univ.
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301 Cal-5803 Canning st, O Pied 2722J

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305 HE-Cloyne Court Bkly 4710

Conger, Miss H. M., Stenographer, Comp-
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114 Cal-2441 Haste st Bkly 5769J

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103 AH-2039 Shattuck av Bkly 4929

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P.O. Box 777, Visalia Visalia 860

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6048 Harwood av, O Pied 2626

Cook, E. P., Vol. Asst. in Pediatrics (M)
131 Hugo st, S F

Cook, Miss M. W., Edith Claypole Research
Fellow in Pathology
2847 Prince st Bkly 3856J

Cook, O. S., Asst. in Roentgenology (M);
Asst. Roentgenologist, University Hos-
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820 Franklin st, S F Pspt 2916

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HP-2131 Carlton st Bkly 5737W

†Cookinham, F. H., Asst in Gynecology
(M); Asst. Visiting Gynecologist, S F
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209 Post st, S F Krny 2471

Cooley, J. L., Asst., Physics
2607 Hearst av Bkly 5913

†Cooper, H. N., Curator, Chemistry
2215 McGee av

†Cooper, W. J., Lectr. in Education (from
Oct. 12 to Dec. 12, 1919)
1825 San Juan av Bkly 1153

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40 M-4167 Seventeenth st, S F

- Corbin, Miss M. E., Asst. in Agr. Extension
El Centro
- Cordes, F. C., Asst. in Ophthalmology (M)
Crossway apts, S F Park 8388
- Cornish, Mrs. B. Q., Instr. in Spanish
425 W-1406 Hawthorne ter Bkly 6116J
- †Cory, C. L., John W. Mackay, Jr. Prof.
of Electrical Engineering, Consulting
Electric Lighting and Heating Engineer,
and Dean of the College of Mechanics
33 M-W F S; 10-12; Tu Th, 2-4
2438 Warring at Bkly 2641
- *Cory, H. E., Asst. Prof. of English
Care, Dr. T. Burrow, The Tuscany,
Baltimore, Md.
- Cosby, S. W., Asst., Soil Technology
Calipatria
- Coulter, Miss E. M., Reference Librarian
219 L-Enclid apts Bkly 1834W
- Coulter, J. W., Teaching Fellow, Geography
7 Bacon-2701 Hearst av Bkly 2421
- Cox, Miss A., Technician, Clinical Laboratories (Hosp)
1375 Ninth av, S F Snst 1064
- Cox, G. E., Asst. in Mechanics and Foreman of Woodwork
23 M-4336 Townsend av, O
- †Cozens, F. W., Asst. Prof. of Physical Education (S)
4449 Burns av, Los Angeles 597929
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University Farm, Davis
- Craig, Mrs. M. L., Recorder, Southern Branch (S)
508 Fairmont av, Glendale 1104W
- Craig, T., Clinical Instr. in Operative Dentistry (D)
209 Post st, S F Sutr 4490
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1418 LeRoy av Bkly 4157
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1516 Scenic av Bkly 7049W
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420 W-1516 Scenic av Bkly 7049W
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205 Cal-1712 Euclid av Bkly 2015
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213 E-2450 College av Bkly 3354
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209 Budd-The Alameda and San Jose av Bkly 9398W
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- †Hall, E. E., Prof. of Physics
121 S-1501 LeRoy av Bkly 1024W
- †Hall, H. M., Honorary Curator in the
Herbarium
1615 La Loma av Bkly 4188
- *†Hall, I. C., Assoc. Prof. of Bacteriology
(M)
University of Chicago, Chicago, Ill.
- Hallam, Miss F. M., Instr. in Chemistry
(S)
1577 Gower st, Hollywood 579001
- †Halma, F. F., Asst., Plant Physiology
Citrus Experiment Station, Riverside
- Hamilton, Miss G., Typist, Comptroller's
Office
2214 Channing way Bkly 8535J
- †Hamilton, W. F., Teaching Fellow, Zo-
ology
2207 Atherton st Bkly 4802W
- Hamman, K. L., Instr. in Advertising,
Univ. Extension
819 Thirteenth st, O
- Hampton, W. H., Asst., Chemistry
2011 Hearst av Bkly 8197W

- †Hanford, W. H., Instr. in Extracting (D)
577 Fourteenth st, O Oakd 749
- Hanna, Miss F. H., Receiving Clerk,
Comptroller's Office
2560 Regal rd Bkly 5388
- †Harder, H. H., Helper, Civil Engineering
2239 Bancroft way
- †Harding, S. T., Assoc. Prof. of Irrigation
807 AH-2728 Haste st Bkly 5892W
- Hardy, A. A., Clerk, Agriculture
University Farm, Davis
- Hardy, Miss R. A., Reader, History
129 L-2081 Carlton st
- †Haring, C. M., Prof. of Veterinary Science
101 Budd-2528 Hillegass av Bkly 710
- Harrington, Miss A., Radium Technician,
Dermatology (M)
285 Broderick st, S F Park 1665
- †Harris, H., Instr. in Medicine (M); S F
Hospital Service (Hoap)
177 Post st, S F Dgls 954
- Harrison, Miss E. A., Teaching Fellow,
Political Science
1814 Woolsey st
- †Harrison, M. E., Prof. of Law and Dean,
Hastings College of the Law (H)
457 City Hall, S F Mrkt 3600
- Harrison, R. C., Asst. Prof. of Law (H)
642 Mills bldg, S F Dgls 799
- †Harrison, R. W., Prof. of Law (H)
Humboldt Bank bldg, S F Sutr 1935
- Harrison, Miss S. J., Telephone Operator
708 Sixty-second st, O Pied 7901J
- Harrison, W., Instr. in Agr. Extension
Marysville
- Harrod, Miss S. P., Stenographer, Agri-
culture
1671 Shattuck av Bkly 5261W
- Harshbarger, A. F., Teaching Fellow, Po-
litical Science
269 Mather st, O Pied 2491J
- †Hart, G. H., Assoc. Prof. of Veterinary
Science
101 Budd-2601 Webster st Bkly 6843J
- †Hart, W. M., Prof. of English Philology
and Dean of the Summer Sessions
105 Cal-2255 Piedmont av Bkly 2078
- Hartley, Mrs. B. D., Secy., College of Den-
tistry (D)
209 Lincoln way, S F Snt 3696
- †Harvey, R. W., Instr. in Neurology (M)
516 Sutter st, S F Grfd 1908
- †Haskell, M. W., Prof. of Mathematics (ab-
sent on leave Jan. 1-Feb. 15, 1920)
421 W—M W F, 10-11
2019 Durant av
- †Hassler, W. C., Lectr. in Public Health
(M)
1085 Mission st, S F Mrkt 1491
- †Hatfield, H. R., Prof. of Accounting on
the Flood Foundation and Dean of
the College of Commerce
21 W-2633 LeConte ac Bkly 2302
- Hauser, Miss E., Stenographer and Asst.,
Law Library
2230 Fulton st
- Hawkins, Miss E. P., Asst. in English
410 W-11 Monte av, P Pied 5650W
- Hawley, Miss A. O., Stenographer and
Clerk, Economics
4185 Howe st, O
- †Hayes, F. M., Assoc. Prof. of Veterinary
Science
University Farm, Davis
- Hays, W. C., Assoc. Prof. of Architecture
A Arch-Cloyne Court Bkly 4710
- Hazen, Miss B. E., Instr. in Fine Arts (S)
1042 W Thirty-sixth st, Los Angeles
25078
- †Hazzard, Mrs. J. C., Asst., Agr. Extension
Court House, Los Angeles Main 2800
- Hedrick, Miss E. A., Classifier, Library
Cloyne Court Bkly 4710
- †Heffner, R. J., Chairman, Technical Dept.,
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301 Cal-1701 Euclid av Bkly 6648W
- †Heileman, W. H., Asst. Prof. of Agr.
Extension
Willows
- †Heller, Mrs. F. H., Fellow in Research
Medicine (HF)
Hooper Research Lab, S F Snt 8600
- †Hendrickson, A. H., Asst. Prof. of Pomol-
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University Farm, Davis
- Henry, Miss R., Instr. in Modern Lan-
guages (S)
1165 N Berendo st, Los Angeles 59086
- †Herms, W. B., Assoc. Prof. of Parasit-
ology
202 AH-1424 LeRoy av Bkly 3302
- Herrington, G., Reader and Asst., Juris-
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2214 Union st Bkly 2488
- †Hersam, E. A., Assoc. Prof. of Metallurgy
204 HM-47 Arden rd Bkly 1209J

- †Hibbard, P. L., Asst. Prof. of Agr. Chemistry
1 FCL-Hayward
†Hildebrand, J. H., Prof. of Chemistry
115 Gilman-1536 LeRoy av Bkly 7764W
Hill, Mrs. C. E., Secretary and Librarian,
Biochemistry and Physiology (M)
1730 Addison st
†Hill, J. J., Asst., Bancroft Library
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1945 Delaware st Bkly 9440W
Hill, Miss M. R., Asst., Medicine (M);
Asst. Resident, S F Hospital (Hosp)
S F Hospital, S F Man 827
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Homeopathic Therapeutics (M)
8408 Geary st, S F Pac 8157
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220 Gilman-2847 Ellsworth st Bkly 4477J
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516 Sutter st, S F Grfd 1902
†Hitchcock, H. H., Asst. in Medicine (M);
(resigned Dec. 31, 1919)
Hoag, C. L., Instr. in Surgery (M); Vis-
iting Surgeon, Hahnemann Hospital
(Hosp)
177 Post st, S F
Hoagland, D. R., Assoc. Prof. of Agr.
Chemistry
5 FCL-Faculty Club Bkly 2855
Hobart, Miss N. M., Clerk (S)
749 S Hartford av, Los Angeles
Hobbs, M. D., Technician, Anatomy (M)
672 Alcatraz av, O
Hobe, Miss A. M., Asst. in the Lick Ob-
servatory (LO)
Mt. Hamilton S J 9718F8
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ogy and Dental Pathology (D)
240 Stockton st, S F Dgls 216
†Hodgson, R. W., Instr. in Citriculture
City Hall, Los Angeles
†Hoff, S. B., Storekeeper, Agriculture
University Farm, Davis
Hoffman, A. H., Asst. Prof. of Agr. Engi-
neering
University Farm, Davis
Hoffman, V. W., Asst., Agr. Extension
University Farm, Davis
Hogness, T. R., Teaching Fellow, Chem-
istry
2435 Haste st Bkly 1980
Holbrook, R. T., Prof. of French
426 W-Faculty Club Bkly 2855
Holland, Miss I., Stenographer, Univ. Ex-
tension
1726 Grove st Bkly 1824
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214 E-2731 Prince st Bkly 4907W
Holroyd, Miss N., Stenographer and Filing
Clerk, Agriculture
6889 Dana st, O Pied 2258
Holzclaw, Miss F., Asst. Clinical Prof. of
Pediatrics (M)
240 Stockton st, S F Grfd 258
†Holway, R. S., Prof. of Physical Geog-
raphy
8 Bacon-Tu Th, 9:30-10
2577 Buena Vista way Bkly 6310
Hook, Miss M., Reader, History
1845 Arch st Bkly 5261W
Hoover, J. E., Foreman and Carpenter
(LO)
Mt. Hamilton
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and Rhinology (M)
135 Stockton st, S F Sutr 2239
†Horne, W. T., Assoc. Prof. of Plant Path-
ology
209 AH-2527 Virginia st Bkly 2080J
Horton, Miss A., Statistical Clerk and Asst.
to Bookkeeper, Univ. Extension
301 Cal-2816 Hillegas av Bkly 3144
Hoskins, W. M., Asst., Chemistry, and
Reader, Mathematics
2415 Haste st Bkly 244W
†Houston, A. J., Asst. Clinical Prof. of
Laryngology, Otology and Rhinology
(M); Chief of Dept. (Hosp)
350 Post st, S F Dgls 361
Houston, Miss M. E., Clerical Asst.,
Library
1809 Scenic av Bkly 3520J
†Hovey, N., Purchasing Agent, Comp-
troller's Office
109 Cal-2011 Cedar st Bkly 4630W
†Howard, J. G., Prof. of Architecture and
Director of the School of Architecture
A Arch-1401 LeRoy av Bkly 72
†Howard, W. L., Prof. of Pomology
University Farm, Davis
†Howe, F. A., Asst. Prof. of English (S)
1749 N Kingaley dr, Hollywood 599844
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Visiting Surgeon, University Hospital
(Hosp)
1 Russian Hill ter, S F Pept 3119

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628 Metropolitan bldg, Los Angeles
- *†Howerth, I. W., Prof. of Education (to Dec. 81, 1919)
- Hoyt, Miss J., Teaching Fellow, Political Science
2956 Piedmont av Bkly 6312W
- Hudson, Miss M. F., Reader, Mathematics
2520 Virginia st Bkly 7247
- Huffer, C. M., Asst. Astronomer in the Lick Observatory on the D. O. Mills Expedition (LO)
Santiago, Chile
- †Hugill, E. A., Supt. of Grounds and Buildings
University Cottage No. 6 Local 13
- †Hume, S. J., Asst. Prof. of Dramatic Literature and Art and Director of the Greek Theatre
303 Cal-11 Panoramic way Bkly 6966J
- †Hummel, A. A., Instr. in Biology (S)
7978 Norton av, Hollywood 579652
- *†Hummel, W. G., Prof. of Agr. Education State Dept. of Education, Olympia, Wn.
- Hunnell, Miss A. O., Instr. in English (S)
621 Beverly dr, Beverly Hills
- †Hunt, C. H., Lectr. in Physical Education for Men (to Dec. 81, 1919)
McKinley Court apts Bkly 6984W
- Hunt, R., Asst. Curator of Birds, Calif. Museum of Vertebrate Zoology
MVZ-Faculty Club Bkly 2855
- †Hunt, Thomas Forsyth, Prof. of Agriculture, Dean of the College of Agriculture
111 AH-daily, 10:30-11:30
1800 Bushnell pl Bkly 8239
- †Hunt, Thomas Francis, Assoc. Prof. of Agr. Extension
104 AH-2409 Carlton st Bkly 2591J
- †Hunter, R., Lectr. in Economics
2421 Ridge rd Bkly 967
- †Huntington, T. W., Prof. of Clinical Surgery, Emeritus (M)
516 Sutter st, S F Grfid 1903
- Huntley, Miss W. F., Teacher in the Kindergarten (S)
- †Hurd, A. F., Helper, Architecture
945 Cragmont av Bkly 2113W
- †Hurwitz, S. H., Asst. Clinical Prof. of Medicine (M)
516 Sutter st, S F Grfid 1903
- Hutchings, R. K., Vol. Asst. in Otolaryngology and Laryngology (M)
Head bldg, S F Sutr 4104
- Hutchinson, Miss K., Asst., Recorder's Office
2611 Russell st Bkly 611W
- *Hutchinson, L., Prof. of Commerce on the Flood Foundation
Care, U. S. Embassy, London, England
- †Hyde, C. G., Prof. of Sanitary Engineering
101 CE-2579 Buena Vista way Bkly 4320J
- Hyde, Miss T. W., Junior Bookkeeper, Comptroller's Office
3884 Arkansas st, O
- †Hyman, S., Instr. in Surgery (M); Visiting Surgeon, University Hospital (Hosp)
3421 Jackson st, S F West 408
- †Ingrin, R. C., Instr. in Shopwork
University Farm, Davis
- †Inman, W. E., Instr. in Geology and Seismology (resigned Dec. 81, 1919)
2023 Bancroft way Bkly 8222
- †Irwin, F., Asst. Prof. of Mathematics
416 W-1625 Arch st Bkly 4808J
- Jackson, Miss J. W., Reader, Education
315 L-1632 Spruce st Bkly 570J
- Jackson, Miss M., Asst., Recorder's Office
2708 College av Bkly 8887
- Jackson, Miss M. C., Training School Teacher in charge of Seventh Grade (S)
5653 Virginia av, Hollywood
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5257 Boyd av, O Pied 2116J
- Jacobsen, J., Foreman of Repairs
University Farm, Davis
- †Jaffa, M. E., Prof. of Nutrition
" 108 Budd-2637 Virginia st Bkly 949
- Jane, J. S., Technician, Clinical Laboratories (M)
1902 Ninth av, S F
- Janney, F. F., Farm Supt. and Instr. in Farm Practice
University Farm, Davis

- †Jarvis, O. W., Instr. in Agr. Extension
(resigned Jan. 11, 1920)
- Jeans, R. W., Instr. in Water Coloring
and Pen and Ink Drawing
W Arch-546 Twenty-fourth st, O
Oakd 5968
- Jeffers, H. M., Fellow in Lick Observatory
(LO)
Faculty Club Bkly 2855
- Jepson, W. L., Prof. of Dendrology
5 B-2714 Benvenue av Bkly 8927
- Jockers, H. P., Clerk, Univ. Extension
1709 La Loma av Bkly 8616J
- †Johnson, A. W., Instr. in Laryngology,
Otology and Rhinology (M); Chief,
Hahnemann Hospital Service (Hosp)
350 Post st, S F Dgls 264
- †Johnson, C. W., Instr. in Operative Den-
tistry (D)
516 Sutter st, S F Grfd 1086
- Johnson, Miss M., Asst., Biochemistry (M)
PL-2611 Durant av Bkly 4525W
- †Johnson, W. O., Asst., Agr. Extension
505 El Centro av, El Centro
- Johnston, J. C., Asst. in Citriculture
214 Hilgard-2331 Ward st
- Jones, B. J., Asst. Prof. of Agr. Extension
Placerville 1701 Placerville
- Jones, C. M., Clerical Asst., Library
1787 Virginia st
- Jones, Mrs. G. H., Telephone Operator (S)
323 N Cummings st, Los Angeles
- Jones, J., Creamery Foreman, Agriculture
University Farm, Davis
- Jones, Miss K. D., Instr. in Landscape
Gardening and Floriculture
304 AH-2545 Piedmont av Bkly 7069J
- †Jones, L. T., Asst. Prof. of Physics
115 S-1062 Euclid av Bkly 2486J
- Jones, R. M., Instr. in Greek
474 W-1012 Euclid av Bkly 9168J
- †Jones, W. C., Prof. of Jurisprudence, Di-
rector of the School of Jurisprudence
212 Boalt-daily, 11-12
2625 Benvenue av Bkly 7264J
- †Joralemon, E., Asst. in French
430 W-7 Panoramic way Bkly 6005
- †Jotter, E. V., Asst. Prof. of Forestry
306 Hilgard-2414 Dana st Bkly 4035
- Judell, M., Vol. Asst., Urology (M)
135 Stockton st, S F Sutr 5112
- †Judson, C. O., Asst. Prof. of Antique
Drawing
O Arch-1590 LeRoy av Bkly 8384W
- Jungermann, A. A., Instr. in Agr. Exten-
sion
P. O. box 877, Modesto
- Junor, Miss H. J., Clerk and Typist,
Comptroller's Office
5719 Ayala st, O Pied 3022J
- Kahley, Miss K., Training Teacher, Eighth
Grade (S)
2950 East Colorado st, Pasadena
Fair Oaks 1394
- †Kaun, A. S., Instr. in Russian
419 L-2705 Hearst av Bkly 745J
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sia (M); U. O. Hospital (Hosp)
1534 Sutter st, S F West 252
- Keller, Miss H., Asst. Supervisor of Prac-
tice Teaching (S)
1521 W Twentieth st, Los Angeles
24290
- Keller, H. R., Asst., Agr. Extension
317 Holland bldg, Fresno Fresno 1891
- Kelley, Miss B. B., Asst., Agr. Extension
Hotel Whitecotton Bkly 7800
- †Kelley, T. R., Instr. in English and His-
tory (FS)
University Farm, Davis Davis 30
- †Kelley, W. P., Prof. of Agr. Chemistry in
the Citrus Experiment Station and
Graduate School of Tropical Agri-
culture
1415 W Twelfth st, Riverside
- †Kellogg, W. H., Asst. Clinical Prof. of
Preventive Medicine (M)
State Board of Health, Sacramento
- Kells, Miss B., Teacher of Physical Train-
ing (S)
5442 Carlton way, Los Angeles 599163
- *Kemp, W. W., Prof. of School Adminis-
tration
315 L-M W, 11-12
2517 Piedmont av Bkly 6200J
- Kendall, Miss M. M., Stenographer, Agri-
culture
1623 Grove st
- Kenneally, T. O., Pharmacist, Hahnemann
Hospital (Hosp)
86 Thirty-seventh st, O
- †Kennedy, P. B., Assoc. Prof. of Agronomy
120 Hilgard-Faculty Club Bkly 2855
- Kenney, Mrs. I. H., Dormitory Supt. (FS)
University Farm, Davis
- *Keppie, Miss E. E., Instr. in English (S)

- †Kern, O. J., Asst. Prof. of Agr. Education
303 Budd-2580 Chilton way Bkly 4208
- Kerr, W. J., Instr. in Medicine (M)
U C Hospital, S F Snt 8600
- Keys, Miss E., Instr. in Obstetrics (M)
391 Sutter st, S F Krny 5520
- †Keys, R. E., Librarian (D)
391 Sutter st, S F Krny 5520
- Kiang, S. C., Instr. in Chinese
416 L-1912 Henry st
- Kidd, A. M., Prof. of Law
214 Boalt-349 Cherry st, S F Pac 1636
- Kierulff, E. N., Technician, Pathology and
Bacteriology (M)
2311 Broderick st, S F
- †Kilcommon, J. J., Senior Bookkeeper,
Comptroller's Office
640 Ashbury st, S F Park 2027
- †Kilgore, E. S., Asst. Clinical Prof. of
Medicine (M)
391 Sutter st, S F Dgls 3222
- †Kincaid, E. A., Instr. in Economics
21 W-1626 Walnut st Bkly 9128W
- King, C., Asst., Physics
1802 LeRoy av Bkly 4438
- †King, H. S., Chimes Master
2550 Ellsworth st Bkly 8647
- Kirkpatrick, P. H., Asst., Physics
2001 Allston way Bkly 6710
- Klamt, R. H., Asst., Agr. Extension
107 Court House, Bakersfield
- †Kleeberger, F. L., Director of Men's Gym-
nasium and Prof. of Physical Edu-
cation
Cor Ridge rd and Highland pl Bkly 844J
- Kleinecke, Miss M. L., Instr. in English
407 W-6 Nogales st Bkly 8319
- Klingberg, F. J., Assoc. Prof. of History
(S)
863 Edgemont blvd, Los Angeles
- Klitgaard, Miss D. S., Cashier, Dentistry
(D)
109 Sixth av, S F Pac 1086
- Knight, Miss A. M., Teacher in the Kin-
dergarten (S)
1927 Bonsello av, Los Angeles 25993
- †Knight, H., Asst., Entomology, Citrus Ex-
periment Station and Graduate School
of Tropical Agriculture
Box 408, Riverside
- †Koefod, H. O., Asst., Medicine (M)
2180 Sutter st, S F
- †Kofoid, C. A., Prof. of Zoology and Asst.
Director of the Scripps Inst. for Bio-
logical Research
208 E-2616 Etna st Bkly 1059
- Konig, Miss M., Stenographer, Agriculture
1398 Scenic av Bkly 2306W
- †Kower, H., Prof. of Drawing
305 D-Faculty Club Bkly 2855
- †Kraus, G. P., Mechanician, Physics
1608 Francisco st
- †Kress, G. H., Dean of the Los Angeles
Medical Dept.
245 Bradbury bldg, Los Angeles Main 7675
- Kreutzman, H. A. R., Asst., Urology (M)
1054 Sutter st, S F Frkn 4813
- Kroeber, A. L., Prof. of Anthropology and
Curator of the Anthropological Mu-
seum
6 Mus-M Tu W Th F, 11
Faculty Club Bkly 2855
- Kropp, J. H., Asst. Armorer, Military
Science
2217 Fulton st Bkly 8810
- Kruger, C. H., Reader, Mathematics
2207 Ellsworth st
- Krunich, M., Instr. in Serbo-Croatian and
French
419 L-2337 Telegraph av Bkly 5025W
- †Kruse, F. H., Instr. in Medicine (M)
240 Stockton st, S F Dgls 3600
- Kruse, Miss F. L., Voluntary Asst., Pedi-
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272 Ninth av, S F Pac 4610
- †Kuch, H., Clerk, Military Science and
Tactics
1821 Ellis st, S F
- †Kuno, Y. S., Instr. in Japanese
415 L-1184 Arch st
- †Kurtz, B. P., Prof. of English
409 L-59 Santa Clara av, O Oakd 6276
- †Kuykendall, R. S., Asst., History
1438 Oxford st Bkly 7986J
- Lake, Miss E. D., Library Asst. (S)
6735 Leland way, Los Angeles 577452
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2117 Roosevelt av Bkly 4969W
- Landers, Miss M. E., Asst., Agr. Exten.
1905 Blanche st, Bakersfield
- †Lange, A. F., Prof. of the Theory and
Practice of Education and Director
of the School of Education
316 L-daily, 11-12; Tu, 4-4:30
2601 LeConte av Bkly 424

- †Langelier, W. F., Asst. Prof. of Sanitary Engineering
103 CE-2241 Durant av Bkly 6811J
- †Langille, H. B., Assoc. Prof. of Machine Design and Mechanical Drawing
27 M-2525 Durant av Bkly 2517
- Langlard, H., Asst. in French
430 W-707 Jefferson st, O Oakd 4702
- Langstroth, L., Instr. in Medicine (M)
240 Stockton st, S F Sutr 5664
- Lantz, Miss M. F., Asst. Dietitian (Hosp)
1474 Sixth av, S F Snt 2692
- La Prade, Mrs. L. H., Teaching Fellow, Anthropology
1539 Arch st Bkly 2087W
- Larmour, E. M., Poultry Foreman, Agriculture
University Farm, Davis
- Larson, J. A., Instr. in Physiology (M)
110 PL-1525 Shattuck av Bkly 8615J
- †LaShelle, F. E., Jr., Asst., Poultry Husbandry
University Farm, Davis
- Latham, Miss M., Asst. Prof. of History (S)
4873 Melrose av, Los Angeles
- Lathrop, Miss E., Instr. in Home Economics (S)
937 Heliotrope dr, Los Angeles
- †Latimer, W. M., Instr. in Chemistry
2 Gilman-2333 Haste st
- Laton, Miss A. D., Asst., Physiology (M)
107 PL-1601 Posen av Bkly 9074J
- Laumeister, Miss E. L., Social Worker, University Hospital (Hosp)
620 Sutter st, S F Pspt 6500
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MVZ-Euclid apts Bkly 5298J
- †Lawson, A. C., Prof. of Mineralogy and Geology
107 Bacon-1515 La Loma av
- Lea, E. J., Assoc. Prof. of Nutrition
260 Ent-2840 Parker st Bkly 3901
- LeBreton, Miss L., Clerical Asst., Library
2550 Ellsworth st Bkly 6186
- LeBreton, Miss R., Clerical Asst., Library
2550 Ellsworth st Bkly 6186
- †LeConte, J. N., Prof. of Engineering Mechanics
27 M-19 Hillside court Bkly 4489
- Ledig, Miss R., Asst. in Biology (S)
836 Loma dr, Los Angeles 60519
- †Lee, A. W., Instr. in Dermatology (M)
1107 Stanyan st, S F Park 3208
- Lee, F. W., Student Fellow (HF)
1706 Walnut st Bkly 4276J
- Lee, M. A. W., Asst. Prof. of Agr. Extension
574 Castro st, Hayward
- †Leebrick, K. C., Asst. Prof. of History
30 W-2510 Haste st Bkly 3789W
- †Legge, R. T., Prof. of Hygiene and University Physician
1 Inf-daily, 9-12
8016 Benvenue av Bkly 2917J
- †Lehmer, D. N., Prof. of Mathematics
417 W-2736 Regent st Bkly 9359J
- †Leland, W. E., Lectr. in Architectural Mechanics
W Arch-912 Indian Rock av Bkly 2132J
- †Lennon, M. B., Asst. Clinical Prof. of Neuro-Psychiatry (M); Chief of Department (Hosp)
135 Stockton st, S F Krny 1359
- Lensen, V. F., Asst., Physics
2218 Dana st Bkly 3267
- Leonard, F. C., Teaching Fellow, Astronomy
10 O-Faculty Club Bkly 2855
- †Leonard, R. J., Prof. of Vocational Education
815 L-2439 Russell st Bkly 8220J
- †Leupp, H. L., Librarian
208 L-1830 San Juan av Bkly 4639
- †Leuschner, A. O., Prof. of Astronomy, Director of Students' Observatory, and Dean of the Graduate Division
8 O-1816 Scenic av Bkly 2182
- Leverich, Miss L., Stenciller, Univ. Extension
Frederick apts, O Pied 5628W
- †Lewis, C. I., Asst. Prof. of Philosophy
452 W-1545B Euclid av Bkly 8555W
- Lewis, Miss D., Secretary and Stenographer (HF)
2430 Lake st, S F Pac 7342
- †Lewis, E. P., Prof. of Physics
116 S-daily exc. S, 10-11
27 Panoramic way Bkly 1031
- †Lewis, G. N., Prof. of Physical Chemistry and Dean of the College of Chemistry
108 Gilman-2440 Hillside av Bkly 7434W

- †Lewitt, F. C., Instr. in Laryngology, Otol-
ogy, and Rhinology (M); U C Hos-
pital Service (Hosp)
185 Stockton st, S F Sutr 110
- †Lewitt, W. B., Prof. of Pediatrics, Emer-
itus (M)
210 Post st, S F Sutr 494
- †Lindley, C. H., Hon. Prof. of Law of Mines
and Water
Mills bldg, S F Sutr 1116
- †Linforth, I. M., Prof. of Greek
434 W-2233 Eunice st Bkly 2830W
- Linhart, G. A., Instr. in Soil Chemistry
and Bacteriology
205 Budd-The Alameda and San Jose av
Bkly 9398W
- *Lipman, O. B., Prof. of Soil Chemistry and
Bacteriology
Faculty Club
- †Lissner, H., Instr. in Medicine (M)
240 Stockton st, S F Grfid 317
- Litch, Miss V., Photographer (M)
488 Forty-first st, O Pied 3377
- Livingstone, Miss T., Curator of the Li-
brary of French Thought
2311 Bancroft way Bkly 214
- Lloyd, W. E., Asst. Prof. of Poultry Hus-
bandry
University Farm, Davis
- Lobangh, Miss R., Office Manager, Univ.
Extension
934 Third av, Los Angeles 75856
- Loewenberg, J., Asst. Prof. of Philosophy
441 W-2704 Virginia st Bkly 4695W
- †Long, J. A., Asst. Prof. of Embryology
321 E-1534 La Loma av Bkly 7428W
- †Loring, F. W., Asst. in Otolaryngology,
and Rhinology (M)
420 Pierce st, S F Park 4462
- †Louderback, G. D., Prof. of Geology
103 Bacon-Tu Th, 11; M W F, 10
2713 Derby st Bkly 3260
- Love, Miss S., Clerk to the University Ex-
aminer, Recorder's Office
1505 Oxford st Bkly 4309W
- †Lowell, W. H., Clinical Instr. in Operative
Dentistry (D)
6097 Claremont av, O Pied 5653
- †Lucas, W. P., Prof. of Pediatrics (M);
Pediatrician-in-Chief (Hosp)
2603 Steiner st, S F Flmr 2562
- Lunt, G. H., Asst., Economics
2445 Derby st
- Lutjeharms, Miss D., Asst., Botany
2695 Cedar st Bkly 538W
- †Lutz, Miss F., Lectr. in Voice Culture
2518 Virginia st Bkly 6802W
- †Lyman, G. D., Instr. in Pediatrics (M);
Associate on Visiting Staff. Children's
Service, University Hospital (Hosp)
240 Stockton st, S F Grfid 146
- Lyman, W. W., Jr., Instr. in Celtic and
English
412 W-2214 Dana st Bkly 1160
- †Lynch, F. W., Prof. of Obstetrics and
Gynecology (M); Gynecologist and
Obstetrician in Chief (Hosp)
U C Hospital, S F Snt 3600
- †Lynch, M. C., Prof. of Law
215 Boalt-2617 Etna st Bkly 1041
- Lynn, Miss E., Asst., Anaesthesia (M)
1009A Church st, S F
- Lyser, Miss A. I., Senior Asst., Library
2214 Dana st Bkly 1160
- †Maas, G. B., Asst., Physics
2035 Channing way Bkly 2515
- †Macaulay, F. R., Asst. Prof. of Economics
21 W-2563 Martinez av Bkly 4358W
- McBride, Miss K., Technical Asst. (HF)
1230 First av, S F Snt 1327
- McBride, R., Asst. Superintendent of Cul-
tivations
Citrus-Experiment Station, Riverside
- McCabe, F., Asst. Prof. of Military Science
and Tactics
Mil-2353 Prospect st Bkly 1612J
- McCallum, R. D., Asst., Agr. Extension
Box 877, Modesto M 257
- McCaslin, Miss E., Stenographer, Educa-
tion (S)
537 N Pickering av, Whittier 227
- McChesney, G. J., Instr. in Orthopedic
Surgery (M)
1202 Flood bldg, S F
- McClanahan, H., Secy., Commerce (S)
643 Heliotrope dr, Los Angeles
- McClellan, Miss M. L., Instr. in Geography
(S)
313 N New Hampshire av, Los Angeles
- †McClelland, J. H., Instr. in Laryngology,
Otolaryngology, and Rhinology (M); Uni-
versity Hospital Service (Hosp)
350 Post st, S F Grfid 2427
- McConnell, F., Asst. to the Director of the
Greek Theatre
303 Cal-Faculty Club Bkly 2855
- †McCormac, E. I., Prof. of American His-
tory
30 W-1404 Hawthorne ter Bkly 2407W

- McCully, Miss M., Asst., Typewriting
2749 Dwight way Bkly 6444
- McDonald, J. H., Assoc. Prof. of Mathematics
456 W-2136 Lewiston av
- †MacDonald, J. M., Asst., Urology (M);
Visiting Urologist, U C Hospital Service,
to Jan. 1, 1920 (Hosp)
131 Irving st, S F Sst 2812
- †Mace, L. S., Instr. in Medicine (M); S F
Hospital Service (Hosp)
240 Stockton st, S F Grfd 808
- McEntyre, Miss P., Asst. to Appointment
Secretary
2515 College av Bkly 7344W
- †McEwen, G. F., Asst. Prof., Oceanographer
and Curator of the Oceanographic
Museum, Scripps Institution for Biological
Research
La Jolla
- McFarland, Miss E. J., Asst., Mathematics
420 W-2514 Virginia st Bkly 7792
- †McFarland, T. C., Emergency Instr. in
Mechanics
40 M-1508 Arch st Bkly 2232W
- McGaw, Miss V. O., Secretary, Mining
2711 Stuart st Bkly 6538
- McGeoch, J. A., Reader, Education
2510 Channing way Bkly 6754J
- †McGlashan, E. L., Instr. in Orthodontic
Technique (D)
Died, Dec. 4, 1919
- McGrath, W. T., Asst., Economics
1613 Grove st Bkly 6329J
- McGuire, Miss E., Instr. in Spanish
425 W-2705 Virginia st Bkly 4606W
- MacIver, Miss I., Junior Asst., Library
1534 Arch st Bkly 2230
- †Mack, Miss E., Lectr. in Voice Culture
462 W-51 Oakvale av Bkly 4805J
- MacKay, Miss S. H., Junior Asst., Library
Hotel Whitecotton Bkly 7300
- McKelvey, Miss K., Syllabus Stenographer,
History
2520n Ridge rd Bkly 5845W
- Mackenzie, Miss H. C., Training School
Teacher in Charge of Third Grade
(S)
330 E av 60, Los Angeles 39614
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122 Hilgard-56 Shasta st Bkly 3318W
- †McKinlay, A. P., Asst. Prof. of Latin (S)
1326 Lucels av, Los Angeles 599414
- Mackinnon, Miss A. B., Bookkeeper, Agri-
culture
1049 Mariposa av Bkly 3841W
- †Macky, Mrs. C. L., Assoc. Prof. of Paint-
ing and Drawing (A)
178 Park Hill av, S F Park 2313
- †Macky, E. S., Prof. of Painting and Draw-
ing and Dean of the Faculty of the
California School of Fine Arts (A)
999 California st, S F Dgls 863
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239 Cambridge av, San Leandro
SL 151J
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1157 N Coronada st, Los Angeles
- McMahon, A. E., Asst., Physics
2304 Telegraph av Bkly 3428
- †McMurray, O. K., Prof. of Law
218 Boalt-2327 LeConte av Bkly 8978
- †McNiece, R. S., Teaching Fellow, Political
Science
2442 Piedmont av Bkly 4590W
- †McPhee, J. A., Asst., Agr. Extension
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- McPherson, Miss A. E., Instr. in Home
Economics (S)
1120 Atchison st, Pasadena Colo 6477
- McRoberts, Miss L. E., Asst., Bacteriology
(D)
3397 Clay st, S F West 3032
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Physical Education for Men
2421 Webster st
- †Macurda, A. A., Asst. Prof. of Education
(S)
601 N Normandie av, Los Angeles
599911
- McVey, C. L., Senior Physician for Men
329 Warwick av, O
- McWilliams, R. L., Instr. in Law (H)
Foxcroft bldg, S F Sutr 387
- Madsen, Miss L. H., Stenographer, Agri-
culture
2221 Parker st Bkly 5284J
- †Madsen, B. A., Asst. Prof. of Agronomy
119 Hilgard-1903A Virginia st
Bkly 6023J
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2428 Dwight way Bkly 4244W

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615 Twelfth st, O
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767 N Kenmore av, Los Angeles Wil 3651
- Marden, J. R., Information Clerk, S F Univ. Extension
1334 Eleventh av, S F Snt 756
- †Markel, H. H., Instr. in Orthopedic Surgery (M)
135 Stockton st, S F Sutr 2288
- Marquardt, J. C., Asst., Dairy Industry University Farm, Davis
- †Marra, U. J., Instr. in Social Economics
21 W-Kensington Park, Ardmore and Coventry rds
- †Marsh, J. W., Instr. in Mechanic Arts (S)
850 N Virgil av, Los Angeles
- †Marshall, Mrs. A. G., Secretary (LO)
Mt. Hamilton San Jose 9718F3
- Marshall, J. A., Asst. Prof. of Biochemistry and Pathology (D)
128 Edgewood av, S F Park 5779
- Marshall, L. W., Instr. in Prosthetic Dentistry (D)
1325 Masonic av, S F Park 2177
- Martin, C. E., Lectr. in International Law and Political Science, and Secretary of the Bureau of International Relations
120 L-Faculty Club Bkly 2855
- ††Martin, D. E., Instr. in Agr. Extension (resigned Nov. 1, 1919)
Court House, Santa Rosa
- Martin, E. A., Teaching Fellow, Political Science
2119 Bancroft way
- Martin, Miss E. E., Reader, Education
2406 Bancroft way Bkly 6428
- ††Martin, G. H., Jr., Asst. in Physiology (M) (resigned Jan. 1, 1920)
2043 Los Angeles av Bkly 3959W
- †Martin, J. C., Instr. in Agr. Chemistry
15 FCL-2247 College av Bkly 5062W
- Martin, Miss M., Asst. Librarian (D)
U O College of Dentistry, S F
- Martin, Miss N. J., Senior Asst., Library
219 L-2611 Derby st Bkly 1014J
- Martin, W. F., Asst., Economics
1054 Mariposa av Bkly 8214W
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University Farm, Davis
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855 N Vermont av, Los Angeles
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421 W Adams st, Los Angeles
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2201 Ward st Bkly 7075W
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Forest Valuation Engineer, Bureau of Internal Revenue, Washington, D. C.
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317 Holland bldg, Fresno
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2676 Greenwich st, S F Flmr 855
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" 932 Mills bldg, S F Sutr 1651
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666 Coronadelet st, Los Angeles 50034
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1343 Third av, S F Snt 3046
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U O Hospital, S F Snt 3600
- †Maxwell, S. S., Assoc. Prof. of Physiology (M)
207 PL-15 Hillside court Bkly 1982
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301 Cal-1627 Walnut st
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- Mazzerra, H. A., Teaching Fellow, Public Speaking
462 W-2247 Bancroft way Bkly 3873
- †Mead, C. D., Assoc. Prof. of Elementary Education
315 L-1568 LeRoy av Bkly 6124

- †Mead, E., Prof. of Rural Institutions
101 AH-6215 Chabot rd, O Pied 4855
- †Meads, A. M., Assoc. University Physician
Inf-2612 Parker st Bkly 4847
- Meacham, L., Reader, History
2214 Dana st Bkly 1160
- Meck, Miss N., Poultry Helper, Agriculture
University Farm, Davis
- Meek, Miss N., Secretary, Civil Engineering
2128 Hearst av Bkly 238
- †Merriam, J. C., Prof. of Palaeontology and
Historical Geology and Dean of the
Faculties
204 Bacon-Tu Th, 11
2401 Bowditch st Bkly 1908
- †Merrill, G. E., Asst. Prof. of Agr. Extension
Died, February 7, 1920
- Merrill, H. B., Asst., Chemistry
2337 Telegraph av Bkly 5025W
- †Merrill, W. A., Prof. of the Latin Language and Literature
436 W-daily, exc. S, 12
2609 College av Bkly 1790W
- †Merritt, R. P., Comptroller, Secy. of the
Board of Regents and Land Agent
220 Cal-1712 Arch st Bkly 871
- Metcalf, Miss A., Instr. in Household
Science
211 HE-2315 Hilgard av Bkly 2157J
- †Metcalf, W., Asst. Prof. of Forestry
803 Hilgard-1525 Arch at Bkly 2514W
- †Meyer, K. F., Assoc. Prof. of Tropical
Medicine (HF) (M)
Hooper Research Lab., S F
- †Meyer, M. A., Lectr. in Semitic Literature
and History
230 W-3108 Jackson st, S F Flmr 666
- †Meyer, W. F., Asst. Prof. of Mathematics
and Astronomy
10 O-2901 Harper st
- †Meyers, A. E., Instr. in Pediatrics (M);
U C Hospital Out-patient Department
(Hosp)
350 Post st, S F Krny 97
- †Michael, E. L., Zoologist and Administration Asst., Scripps Institution for Biological Research
Scripps Institution, La Jolla
- †Michaud, R., Prof. of French
473 W-2820 Garber at Bkly 8699W
- Middleton, Miss C., X-Ray Technician,
Hahnemann Hospital (Hosp)
559 Eighteenth av, S F Pac 7067
- Miles, Miss D., Asst., Recorder's Office
Cambridge apts Bkly 8064W
- †Millberry, G. S., Prof. of Dental Chemistry
and Metallurgy and Dean of the College of Dentistry (D); Chief of Department of Dentistry (M)
1043 Clayton st, S F Park 4190
- Miller, D. B., Instr. in Drawing
301 D-2737 Woolsey st Bkly 2313
- †Miller, H. East, Research Assoc., Chemistry
305 Palm av, O Oakd 4264
- †Miller, Henley E., Instr. in Surgery (D):
Visiting Dental Surgeon, S F Hospital
(Hosp)
749 Flood bldg, S F Dgls 5377
- †Miller, Hiram E., Asst. in Dermatology
(M); S F Hospital Service (Hosp)
- Miller, J. D., Garage Foreman and Instr.,
Agriculture
University Farm, Davis
- †Miller, L. H., Asst. Prof. of Biology (S)
6066 Hayes av, Los Angeles 39241
- Miller, Miss M., Asst. in Spanish
430 W-1621 Hearst av Bkly 2869W
- †Miller, Miss O., Instr. in Biology (D) (to
Dec. 20, 1919)
732 Treat av, S F
- †Mills, E. C., Voluntary Asst., Homeopathy
(M)
562 Columbus av, S F Grfd 632
- †Mills, J. W., Instr. in Agr. Extension
Court House, Fairfield
- †Millsbaugh, J. F., Dean of the Southern
Branch (S)
Died, Dec. 12, 1919
- †Minor, R. S., Prof. of Physics
201 S-2614 Warring at Bkly 1267W
- Mitchell, Miss E., Stenographer, Agriculture
331 Hilgard-2634 Benvenue av
Bkly 1186W
- †Mitchell, S. B., Assoc. Librarian, Head of
Accessions Dept., Univ. Library
210 L-1010 Oxford st Bkly 6652J
- Miyasaki, S., Technical Asst. (HF)
2018 Bush st, S F West 8817
- Moberg, E. G., Teaching Fellow, Zoology
2248 Telegraph av Bkly 9011
- †Moffitt, H. C., Prof. of Medicine (M);
Physician in Chief (Hosp)
1818 Broadway, S F Frkn 21
- Monroe, Miss B. F., Asst., Soil Technology
28 Hilgard-2245 Hearst av Bkly 6066W

- †Montgomery, C. M., Instr. in Spanish
475 W-2316 Allston way Bkly 7246
- †Montgomery, G., Instr. in English and
Asst. Dean of the Summer Session
105 Cal-111 Shasta st Bkly 8752J
- †Montgomery, Mrs. P., Telephone Operator
1444 Fourth av, O Mer 2470
- Moody, Miss A. C., Secretary, Dept. of
Medicine (M)
1381 Fifth av, S F
- †Moody, R. O., Assoc. Prof. of Anatomy
11 Anat-2826 Garber st Bkly 3058
- Moore, A. H., Asst., Pediatrics (M); Resi-
dent, U C Hospital (Hosp)
U C Hospital, S F Snt 600
- †Moore, E. C., Director of the Southern
Branch (S)
Southern Branch of the University of
California, Los Angeles Wilshire 123
- Moore, Miss H. A., Representative of the
Summer Session in Los Angeles
224 W av 55, Los Angeles 39997
- †Moore, H. T., Lectr. on Surgery (D)
391 Sutter st, S F Grfd 605
- †Moore, J. H., Assoc. Astronomer (LO)
Mt. Hamilton
- †Moore, J. N., Foreman, Forestry Station,
Agriculture
P.O. Box 851, Chico
- Moore, Miss L. M., Instr. in Physiology
(M)
205 PL-2566 Buena Vista way
Bkly 9583J
- †Moore, W. G., Instr. in Obstetrics and
Gynecology (M); Chief, S F Hospital
Gynecological Service (Hosp)
177 Post st, S F Dgls 5726
- †Morgan, Mrs. A. F., Assoc. Prof. of House-
hold Science
206 HE-1620 Spruce st Bkly 3214W
- †Morley, S. G., Assoc. Prof. of Spanish
427 W-2535 Etna st Bkly 955
- †Morley, W. S., Asst. Prof. of Metallurgy
108 HM-2611 Piedmont av Bkly 8023W
- †Morris, F. R., Instr. in Mathematics
416 W-2084 Durant av Bkly 6939W
- †Morris, W. A., Assoc. Prof. of English His-
tory
30 W-5623 Oak Grove av, O Pied 2750J
- Morrison, Miss B. M., Asst., Psychology
2328 Bowditch st Bkly 2152W
- Morrison, L. F., Asst. in Bacteriology (M)
760 Thirty-fifth av, S F Pac 201
- Morrison, R., Collector, Univ. Extension
2327 Bancroft way Bkly 1061W
- †Morrow, H., Clinical Prof. of Dermatology
(M); Chief of Department (Hosp)
Butler bldg, S F Dgls 2397
- Morrow, Miss L., Asst. Prof. of Applied
Nursing (M) and Director of Nursing
and Social Service (Hosp)
450 Irving st, S F Snt 1707
- Morton, Miss G. E., Secy. to Comptroller
1508 Edith st Bkly 7413J
- †Moses, B., Prof. of History and Political
Science, Emeritus
Care Bis, Notre Dame des Champs,
Paris, France
- †Mueller, L., Lectr. in Insurance
22 W-127 Bonita av, P Pied 6164
- †Mulford, W., Prof. of Forestry and Direc-
tor of Resident Instruction, Agricul-
ture
111 AH-1619 Spruce st Bkly 2402W
- Muller, V. A., Vol. Asst. in Surgery (M)
240 Stockton st, S F
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of Women
2644 Benvenue av Bkly 1759J
- *Murphy, F. T., Asst., Agr. Extension
317 Holland bldg, Fresno
- †Musante, C. B., Clinical Instr. in Oper-
ative Dentistry (D)
407 Phelan bldg, S F Sutr 2599
- †Musgrave, W. E., Director of Hospitals
(M)
Fairmont Hotel, S F Krny 8900
- †Myszka, C. S., Asst. Prof. of Agr. Exten-
sion; Farm Adviser, Mendocino Co
Brown bldg, Ukiah 73W
- †Naffziger, H. C., Asst. Clinical Prof. of
Surgery (M); Visiting Neurological
Surgeon, U C Hospital (Hosp)
291 Geary st, S F Sutr 1892
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Drawing and Art Anatomy and Curator
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100 D-6043 Harwood av, O Pied 6016W
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Organization, Univ. Extension (re-
signed Sept. 30, 1919)
- †Nance, J. T., Prof. of Military Science and
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Mil-2530 Piedmont av Bkly 8342J
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5844 Ocean View dr, O Pied 6688W
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105 AH

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1721 Berkeley way
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105 AH-5809 Ocean View dr, O
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Design
2922 Derby st Bkly 3262J
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2435 Haste at Bkly 1980
- †Nichols, C., Instr. in Agr. Extension (re-
signed Nov. 1, 1919)
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tor of the Pharmaceutical Laboratory
(Ph)
22 Parnassus av, S F Park 988
- †Noble, C. A., Prof. of Mathematics and
Asst. Examiner of Schools
455 W-2224 Piedmont av Bkly 2533
- *Nobmann, C. J., Instr. in Civil Engineer-
ing
109 CE-1550 Everett st, A Ala 282
- †Norton, J. H., Instr. in Chemistry (FS)
University Farm, Davis
- Norton, W. D., Asst., Agr. Extension
4 AH
- †Noyes, G. R., Prof. of Slavic Languages
419 L-M W F, 2-3
1434 Greenwood ter Bkly 1767J
- †Nutting, H. C., Assoc. Prof. of Latin
477 W-2910 Regent st Bkly 304
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2214 Dana st
- Oddie, Miss S. S., Teaching Fellow, Public
Speaking
462 W-2527 Fillmore st, S F Flmr 255
- Okey, Miss R., Asst. Prof. of Household
Science
209 HE-2528 Ellsworth st Bkly 9556J
- Oldenbourg, Miss L. A., Asst. Physician
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342 Hawthorne av, O Oakd 5569
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Agriculture (S)
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ler's Office
110 Cal-2425 Grant st Bkly 182
- †Olsen, S., Asst. in Urology (M)
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303 Gilman-2408 Fulton st Bkly 5768W
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and Director of the Chemical Labora-
tory
114 Gilman-2522 College av Bkly 436W
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106 AH
- Osgood, Miss K. F., Asst. Supervisor of
Practice (S)
1823 S Western av, Los Angeles
- †O'Sullivan, C. D., Asst. Prof. of Military
Science and Tactics (resigned Sept.
30, 1919)
3307 Clay st, S F Flmr 1877
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1605 High st, A
- Otter, Miss B., Findex Clerk, Appt. Secy's
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102 Cal-1325 Walnut st Bkly 7605J
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331 Hilgard-908 Indian Rock av
Bkly 7646W
- *Packard, W. E., Asst. Prof. of Agr. Ex-
tension
2817 Piedmont av Bkly 7633W
- Paddock, G. F., Acting Astronomer in
charge of D. O. Mills Expedition (LO)
Santiago, Chile
- †Paetow, L. J., Prof. of Medieval History
30 W-722 Arlington av Bkly 2209W
- Pagés, A., Asst. in French
430 W-2325 Dana st Bkly 8383W
- Palmer, Miss E. G., Reader, Mathematics
2725 Prince st Bkly 2943W
- Palmer, Miss G., Instr. in Physical Train-
ing (S)
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636 Hillsboro st, O Mer 4487
- Parma, Miss R., Librarian of the Law Library
506 Cambridge apts Bkly 9082W
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Anglo bldg, S F Mrkt 441
- Partridge, R. H., Office Clerk, Physical Education for Men
2285 Durant av Bkly 7929
- †Paschall, C., Prof. of German
400 W-2319½ Haste st Bkly 3972W
- Patrick, G., Asst. in French
430 W-2360 Ellsworth st Bkly 4098W
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300 HE-M W F, 11
1715 La Loma av Bkly 4844W
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468 W-2215½ Ellsworth st Bkly 1468W
- Pearson, C. P., Asst., Physics
2284 Haste st Bkly 149W
- Pegram, Mrs. E. H., Stenographer, Agriculture
2228 Durant av
- Peixotto, Miss J. B., Prof. of Social Economics
22 W-Cloyne court Bkly 3757
- Pendergast, Miss B., Stenographer and Clerk, Comptroller's Office, S F
- *Pennington, Miss A. S., Vol. Asst., Medicine (M)
2828 Folsom st, S F
- †Pepper, S. C., Teaching Fellow, Philosophy
2284 Carlton st Bkly 8196W
- †Perdue, C., Clerk, Comptroller's Office
1937 E. Twenty-sixth st, O
- Perham, F. E., Instr. in English (D)
285 Melville av, Palo Alto
- †Perrier, E. C., Visitors' Instructor (LO)
Mt. Hamilton San Jose 9718F3
- †Perry, W. C., Asst. Prof. of Architecture
A Arch-41 Arguello blvd, S F Pac 547
- Petersen, Miss A., Stenographer, Univ. Extension
2415 Roosevelt av
- *†Petersen, P. T., Instr. in Veterinary Science, in charge of Serum Manufacture
Died Dec. 24, 1919.
- Peterson, Miss M. C., Office Manager, Univ. Extension
558 Sixty-second st, O Pied 7378J
- †Petersson, T., Asst. Prof. of Latin
476 W-1045 Keith av Bkly 7161J
- Pettit, Miss H. K., Reader, Mathematics
1632 Spruce st Bkly 570J
- †Phillips, J. B., Instr. in Mechanic Arts (S)
761 N Kenmore av, Los Angeles
- Philp, G. L., Instr. in Pomology
University Farm, Davis
- Phinney, Miss M. A., Mailing Clerk, Agriculture
1611 Spruce st Bkly 8257
- Phipps, Miss G. E., Senior Asst., Library
2722 Russell st Bkly 3938J
- Phipps, T. E., Asst., Chemistry
2435 Haste st Bkly 1980
- *Phleger, H. H., Lectr. in Law
Crocker bldg, S F
- Pythion, D., Asst. in Obstetrics and Gynecology (M); Asst. Resident, U C Hospital (Hosp)
U C Hospital, S F Snst 8600
- †Piazzoni, G., Prof. of Painting (A)
712 Montgomery st, S F Sutr 4897
- Pickle, N. J., Inventory Clerk, Comptroller's Office
1461 Alice st, O Lksd 1108
- Pickles, Miss E. F., Clerk and Typist, Comptroller's Office
108 Cal-2557 Wakefield av, O
Frwl 2823J
- Pierson, C. F., Instr. in Mechanic Arts (S)
- †Player, L. P., Instr. in Urology (M)
516 Sutter st, S F Grfd 889
- *†Plehn, C. C., Prof. of Finance on the Flood Foundation
Faculty Club, Columbia University, New York, N. Y.
- †Ploss, C., Asst. to Prof. of Military Science and Tactics; Acting Supply and Ordnance Sergeant
1809 Delaware st Bkly 9089J
- Plough, Mrs. E. B., Instr. in Commercial Practice (S)
1275 W 35 st, Los Angeles
- †Podstata, V. H., Lectr. in Psychiatry (M)
Livermore

- †Pollia, J. A., Voluntary Asst., Homeopathy (M)
3584 California st, S F West 4387
- †Pomeroy, W. C., Instr. in Physics
115 S-2333 Channing way Bkly 8515W
- Pope, Miss F. W., Information Clerk, Univ. Extension
801 Cal-1959 Napa av Bkly 7991
- †Pope, S. T., Asst. Clinical Prof. of Surgery (M); Visiting Surgeon, U C Hospital (Hosp)
249 Cherry st, S F Pac 5729
- Pope, W. T., Instr., Botany, University Farm School
University Farm, Davis
- *†Popper, W., Assoc. Prof. of Semitic Languages
260 W. Ninety-third st, New York N. Y.
- †Porter, C. W., Asst. Prof. of Chemistry
201 Chem-2004 Bancroft way
- †Porter, L., Teaching Fellow, History
1101 Keeler av Bkly 5048J
- Porter, M. B., Appointment Secretary (S)
2331 Thompson st, Los Angeles 24604
- †Porter, R. L., Lectr. in Pediatrics (M); Chief, Children's Hospital Service (Hosp)
240 Stockton st, S F Grfd 210
- Posner, J. J., Publicity Agent, President's Office
219 Cal-2334 Durant av Bkly 3485
- Powell, Miss C., Teaching Fellow, Philosophy
2533 Durant av Bkly 665
- Powell, H. H., Lectr. in Hebrew
421 L-1051 Taylor st, S F Pspt 6259
- Pratt, Miss A., Asst., Recorder's Office
2933 Magnolia av Bkly 1827J
- Pratt, Miss A. S., Senior Asst., Library
2516 Ridge rd Bkly 5845W
- †Pratt, B. H., Asst., Anatomy (M) (to Dec. 31, 1919)
2606 Bancroft way Bkly 2617
- †Press, A., Asst. Prof. of Electrical Engineering (resigned Jan. 31, 1920)
2431 College av
- Preston, Mrs. C. M., Training School Teacher in charge of Fourth Grade (S)
1521 W Pico st, Los Angeles 53179
- †Price, A. L., Editor, Univ. Extension
374 Fifteenth av, S F Pac 3491
- †Price, C., Assoc. Prof. of Latin
478 W-5½ Panoramic way Bkly 7734W
- Price, C. M., Instr. in Physical Education
HG-1770 Broadway, O Oakd 1171
- †Price, L. M., Instr. in German
402 W-2404 Cedar st Bkly 8443J
- †Priestley, H. I., Asst. Prof. of Mexican History and Asst. Curator of the Bancroft Library
BL-1425 Arch st Bkly 1878J
- Prince, E. M., Reader and Asst., Jurisprudence
2625 Hearst av Bkly 9535
- *Prince, L. D., Asst., Orthopedic Surgery (M)
Granada Hotel, S F Frkn 422
- †Prizer, J. A., Supt. of Cultivations, Citrus Experiment Station (resigned Nov. 1, 1919)
- †Probert, F. H., Prof. of Mining and Dean of the College of Mining
132 HM-daily, exc. S, 10-12, 1-4
28 Oakvale av Bkly 8981
- Pruett, A. W., Extern, Dentistry (M)
Flood bldg, S F Dgls 2838
- *Pruett, J. F., Instr. in Urology (M)
- †Putnam, T. M., Prof. of Mathematics, Dean of the Undergraduate Division, and Acting Dean of the College of Letters and Science
207 Cal-2740 Elmwood av Bkly 729
- †Putzker, A., Prof. of German Literature, Emeritus
2600 Telegraph av Bkly 5148
- Quackenbush, Miss E. J., Junior Bookkeeper, Comptroller's Office
1828 Cedar st
- †Quayle, H. J., Prof. of Entomology in the Citrus Experiment Station and Graduate School of Tropical Agriculture
Citrus Experiment Station, Riverside
- †Raber, B. F., Prof. of Mechanical Engineering
Care, Filtration Division, City Commission, Sacramento
- Rabinowitz, R., Asst., Medicine (M); Asst. Resident, U C Hospital (Hosp)
U C Hospital, S F Snst 3600
- Radin, M., Prof. of Law
214 Boalt-1732 Highland pl Bkly 3158W
- †Radin, P., Asst. Prof. of Anthropology
6 Mus-1732 Highland pl Bkly 3158W
- †Rakestraw, B. B., Asst. Director in charge of Offices, Univ. Extension
2543 Chilton way
- Ralston, Miss R. H., Instr. in Nursing (Hosp)
131 Hugo st, S F Snst 234

- Ralston, W. R., Instr. in Agr. Extension
Hotel Whitecotton Bkly 7300
- *Ramírez, R., Chilean Exchange Prof. in
Hispanic-American History
BL (after April 1)
- †Rand, E. K., Sather Prof. of Classical Lit-
erature
433 W-38 Mosswood rd Bkly 5606
- †Randall, M., Asst. Prof. of Chemistry
103 Gilman-2708 Regent st Bkly 4848J
- Randall, S. Technician, Pathology and
Bacteriology (M)
2418 Bancroft way
- †Randolph, L. F., Director of the Calif.
School of Fine Arts and Prof. of
Painting, Drawing, and Anatomy (A)
999 California st, S F Dgls 863
- Raphael, Miss M., Technician, Pathology
and Bacteriology (M)
- Rappleye, W. C., Instr. in Biochemistry
(M); Chief of Clinical Laboratories
(Hosp)
U C Hospital, S F Snst-3600
- Rastall, B. M., Lectr. in Business Admin-
istration
21 W-2218 Vine st Bkly 6054
- †Rattray, J. T., Mechanic, Chemistry
1444 Benton st, A Ala 3088W
- Ray, Miss L. E., Physician for Women (S)
506 Brockman bldg, Los Angeles 558651
- †Raymond, C. H., Instr. in English in Busi-
ness Practice
440 W-1526 Walnut st Bkly 8615W
- †Raymond, W. J., Assoc. Prof. of Physics
117 S-2622 Piedmont av Bkly 4807
- Reagan, F. P., Asst. Prof. of Zoology
105 E-2201 Jefferson st
- Réau, Miss A. C., Lectr. in French
102 W-Mills College, O Elm 10
- Redington, Mrs. C. P., Stenographer, Agri-
culture
Box 322, Davis
- Reed, Mrs. E., Chief Clerk, Out-Patient
Dept. (Hosp)
131 Hugo st, S F Snst 234
- †Reed, H. S., Prof. of Plant Physiology in
the Citrus Experiment Station and
Graduate School of Tropical Agricul-
ture
Citrus Experiment Station, Riverside
- †Reed, T. H., Prof. of Municipal Govern-
ment
432 W-1707 Euclid av Bkly 6802J
- †Rees, C. W., Teaching Fellow, Zoology
Morrill apts Bkly 4812W
- †Rehlfisch, J. M., Asst., Medicine (M)
1940 Scott st, S F Flmr 3639
- Rehmke, Mrs. E. T., Stenographer, Agri-
culture
University Farm, Davis
- Reid, Miss E. C., Instr. in Psychiatry, U C
Hospital (Hosp)
766 Sutter st, S F Frkn 7866
- Rewcastle, Mrs. M., President's Stenog-
rapher
2924 Fulton st
- Reynolds, Miss B. C., Head Bookkeeper,
Univ. Extension
3046 Deakin st Bkly 3716
- Rhodes, G. K., Voluntary Asst. in Surgery
(M); Asst. Visiting Surgeon, Out-
patient Dept., U C Hospital (Hosp)
516 Sutter st, S F
- †Rhodes, M. T., Asst. Prof. of Clinical Op-
erative Dentistry (D)
First National Bank bldg Bkly 4800
- Rice, M.A., Instr. in Agr. Extension
Court House, Bakersfield
- Richards, Miss M., Instr. in Physical Edu-
cation (S)
1025 N Vermont av, Los Angeles
599465
- †Richards, R. L., Lectr. in Psychiatry (M)
Box X, Talmadge Ukiah 18
- †Richardson, L. J., Prof. of Latin; Director
of Univ. Extension
301 Cal-2415 College av Bkly 5115
- Richardson, Miss M. M., Asst., Agr. Ex-
tension
438 Court st, San Bernardino
- Richardson, Miss R. T., Instr. in Indus-
trial Arts (S)
270 Sntsuma av, Eagle Rock City
- Richter, Miss I. M., Asst. in Medicine (M)
3854 Sacramento st, S F
- Ridenhour, Miss A., Bill Clerk's Asst.,
Comptroller's Office
108 Cal-1324 Oxford st Bkly 858J
- Ridenour, H. E., Instr. in Prosthetic Den-
tistry (D)
1264 Second av, S F Park 1917
- †Rieber, C. H., Prof. of Philosophy
234 W-15 Canyon rd Bkly 1060
- Riedy, Miss D., Technician, Clinical Lab-
oratories (M)
1338 Third av, S F Snst 1221

- Riess, Miss I. G., Chief Asst., English
409 L-1549 LeRoy av Bkly 8593W
- Righetti, Miss E., Asst., Gynecology and
Obstetrics (M); Resident, S F Hos-
pital (Hosp)
S F Hospital, S F
- Ring, R. H., Asst. in German
910 Treat av, S F Men 6589
- Rippee, Miss A., Stenographer and Filing
Clerk, Comptroller's Office
Eugene apts Bkly 5648W
- Ritchey, Miss J. H., Chief Clinical Records
Clerk (M)
1200 Clayton st, S F Mrkt 4186
- †Ritter, W. E., Prof. of Zoology and Scien-
tific Director of the Scripps Institu-
tion for Biological Research
La Jolla
- †Roadhouse, C. L., Prof. of Dairy Industry
University Farm, Davis
- Robb, Miss A. R., Clerk, Comptroller's
Office
5582 Lawton av, O Pied 5745
- Roberts, Mrs. D. L., Chief Clerk, Agricul-
ture
1617 La Loma av Bkly 6143J
- †Roberts, F. J., Technical Asst. (HF)
El Granada, San Mateo Co.
- Robinson, Miss E. J., Training School
Teacher in charge of Sixth Grade (S)
913 Edgemont blvd, Los Angeles 59348
- †Robinson, G. H., Prof. of Law
216 Boalt-1424 Scenic av Bkly 8767W
- *†Robinson, L. N., Asst. Prof. of Electrical
Engineering
1411 Grove st Bkly 9247W
- Robinson, W. R., Asst., Economics
2211A Telegraph av
- †Robschert, Mrs. F. S., Fellow in Research
Medicine (HF)
191 Frederick st, S F Park 5961
- Roeca, Miss H., Teaching Fellow, Political
Science
2226 Chapel st Bkly 879
- Rode, Miss R., Clerk, Recorder's Office (S)
1342 Calumet av, Los Angeles Main 7991
- †Rodebush, W. H., Research Assoc., Chem-
istry
1 Gilman-2529 Cedar st
- Roehr, Miss C., Pharmacist, University
Hospital (Hosp)
12 Woodland av, S F Mrkt 8089
- †Rogers, S. S., Assoc. Prof. of Olericulture
(resigned Dec. 31, 1919)
- †Romero, T. S., Asst. in Spanish (to Dec.
31, 1919)
695 Thirty-first st, O Pied 447
- *Roof, Miss E. L., Instr. in Physical Edu-
cation
Box 2, Claremont
- Rosen, B. S., Dental Surgeon, Infirmary
Infirmary
- Rosencrantz, Miss E., Instr. in Medicine
(M)
729 Jones st, S F Frkn 2327
- †Rosendorf, O., Asst. to Prof. of Military
Science and Tactics
2206 Grove st Bkly 6194J
- Rosson, F. B., Instr. in Pathology (M)
1377 Seventh av, S F
- †Rowe, A. H., Asst., Medicine (M)
Thomson bldg, O Lksd 265
- †Rowell, J. C., Librarian Emeritus
University Archivist
211 L-3415 West st, O Pied 5264
- Rowland, Miss D. L., Stenographer, Univ.
Extension
1836 Walnut st Bkly 2717
- †Rubel, C. W., Assoc. Prof. of Agr. Extension
105 AH-1563 LeRoy av Bkly 1023W
- †Ruggles H. E., Asst. Clinical Prof. of
Roentgenology (M); Chief of Dept.
(Hosp)
932 Butler bldg, S F Sutr 4620
- Rugh, C. E., Prof. of Education
315 L-2315 Dwight way Bkly 4026
- †Rulofson, A. C., Instr. in Anaesthesia
(D); Visiting Dental Surgeon (M)
135 Stockton st, S F Dgis 1579
- †Rusk, G. Y., Assoc. Prof. of Pathology
(M)
117 Alton av, S F Snt 124
- Russ, Miss E., Lab. Asst., Agriculture
University Farm, Davis
- Ryan, Miss L. M., Clerical Asst., Library
1829 Rose st Bkly 8546W
- Ryder, A. W., Assoc. Prof. of Sanskrit
331 W-2337 Telegraph av Bkly 5025W
- Ryerson, K. A., Asst., Agr. Extension
2525 Cedar st Bkly 5278
- Sagen, G. O., Asst., Mathematics
420 W-2419 Durant av Bkly 9149
- Saile Miss G. A., Asst. to Storekeeper,
Chemistry
2636 Channing way Bkly 7576W
- †Sait, E. M., Lectr. in Political Science
471 W-2428 College av Bkly 1033J
- Sandberg, C. H., Asst., Chemistry
2336 College av Bkly 2431

- Sanden, Miss J. C., Chief Clerk, Agriculture
6286 Colby st, O Pied 3235J
- †Sanford, T. F., Assoc. Prof. of English Literature
411 W-1030 Vallejo st, S F Pspt 1561
- Schacht, F. H., Asst., Chemistry
2516 Bancroft way Bkly 2277J
- Schaeffer, R., Instr. in Decorative Design (A)
1567 Willard st, S F Mrkt 7441
- Schaner, Miss J. E., Technician, Pathology and Bacteriology (M)
667 Thirty-first st, O
- Schermerhorn, J. F., Vol. Asst. in Pediatrics (M)
516 Sutter st, S F
- †Schevill, R., Prof. of Spanish
427 W-1308 Tamalpais rd Bkly 4460J
- †Schilling, H. K., Prof. of the German Language and Literature
401 W-M W F, 1:30-2; Tu, 2-4
2316 LeConte av Bkly 1409
- Schleef, Miss C., Asst., Social Economics
438 L-2238 Durant av Bkly 7929
- †Schmidt C. L. A., Asst. Prof. of Biochemistry (M)
106 PL-2338 Roosevelt av Bkly 3897
- †Schmitt, L. S., Asst. Clinical Prof. of Dermatology; Secretary of the Faculty of the Medical School (M); Visiting Dermatologist, University Hospital (Hosp)
U O Hospital, S F Snst 8600
- *†Schneider, F., Instr. in German
403 W-1417A Arch st Bkly 1717J
- Schoenholz, Miss P., Technician, Consolidated Media Dept. (M)
3975 Clay st, S F Pac 8026
- Schuchard, L., Instr. in Extracting (D)
2841 Twenty-third st, S F
- Schulze, Miss E., Asst., Medicine (M); Resident U C Hospital (Hosp)
U C Hospital, S F Snst 8600
- Schulze, Miss M., Asst., Gynecology and Obstetrics (M); Resident U C Hospital (Hosp)
U O Hospital, S F Snst 8600
- Schwartz, O. A., Asst. to Prof. of Military Science and Tactics
1811 Bonita av
- *Sciobereiti, R., Teaching Fellow, Astronomy
10 O-2008 Shattuck av Bkly 5135
- Scotfield, R., Asst. in English
406 W-1042 Sierra st Bkly 2281W
- Scott, A. E., Clinical Instr. in Orthodontia (D)
2 Golden Gate av, S F Frkn 7756
- †Scott, I. M., Jr., Instr. in Shipping Board School
2741 Woolsey st Bkly 3826W
- Scott, Miss K. J., Instr. in Anatomy (M)
4 Anat-40 Shasta st Bkly 456
- Scott, S. B., Instr. in Dental Porcelain (D)
291 Geary st, S F Dgls 4271
- Scott, Miss W. I., Stenographer, Dept. Agriculture
2032 Delaware st
- †Scribner, F. H., Asst., Agr. Extension
857 Court House, Los Angeles
- Seaman, Miss J. E., Instr. in English (S)
2341 Searff st, Los Angeles 22754
- Seaver, H. C., Asst., Gynecology (M); Asst. Visiting Gynecologist, S F Hospital (Hosp)
1363 Fifth av, S F Snst 2348
- Seawright, W. L., Asst. Prof. of Physical Education (FS)
University Farm, Davis
- Secrest, Miss M., Asst. Prof. of Agr. Extension (from Mar. 1)
103 AH
- *†Seligman, E. R. A., Prof. of Finance; Exchange Prof. from Columbia University
21 W-Berkeley Inn Bkly 6370
- Sevier, H., Orchard Foreman, Pomology
University Farm, Davis
- †Senger, J. H., Prof. of German, Emeritus
1321 Bay View pl Bkly 404
- *Setchell, W. A., Prof. of Botany
Faculty Club Bkly 2855
- †Severin, H. H., Instr. in Entomology
201 AH-2328 Grove st Bkly 7269W
- Shafor, Mrs. L., Clerk, in charge students' affairs and alumni (M)
627 Taylor st, S F Pspt 4836
- Shane, C. D., Fellow in Lick Observatory (LO)
Mt. Hamilton
- Shaper, B. W., Instr. in Agr. Extension
San Bernardino 1025
- Shapero, S. M., Inventory Clerk, Comptroller's Office
1517½ Spruce st Bkly 987
- †Sharp, J. G., Prof. of the Principles and Practice of Surgery (D)
Butler bldg, S F Dgls 3912

- †Sharp, W. F., Prof. of Clinical Prosthodontia (D)
350 Post st, S F Grld 820
- †Shaw, C. F., Prof. of Soil Technology
320 Hilgard-1415 Euclid av Bkly 6541
- Shaw, Miss M. G., Stenographer to the
Dean of the Undergraduate Division
1411 Arch st Bkly 1287W
- †Sheppard, H. E., Lectr. in Economics
21 W-2418 Dana st Bkly 3814W
- Sherbourne, Miss E., Reader, History
2707 Channing way Bkly 5700
- Sherman, Miss E., Supt. of Infirmary
2216 College av Local 109
- †Sherman, J., Asst., Medicine (M)
350 Post st, S F Sutr 5292
- †Sherman, R. S., Asst., Surgery (M); Asst.
Visiting Surgeon, S F Hospital
(Hosp)
209 Downey st, S F Park 2513
- †Sherwood, G. E. F., Assoc. Prof. of Mathematics (S)
1145 Mohawk st, Los Angeles 556791
- Shortlidge, E. D., Instr. in Otology, Rhinology and Laryngology (M)
209 Post st, S F Sutr 1718
- Shufelt, A. A., Asst., Gynecology and
Obstetrics (M); Asst. Resident, University Hospital (Hosp)
U C Hospital, S F Snt 3600
- †Shutes, M. H., Ophthalmologist, Infirmary
3154 College av Pied 7129
- †Silva, M. A., Astronomical Instrument
Maker (LO)
Mt. Hamilton
- Silverman, Miss A., Asst. in English
1549 LeRoy av Bkly 8593W
- †Simmons, H. M., Assoc. Prof. of Materia
Medica and Pharmacy and Lectr. on
Toxicology (Ph)
1160 Page st, S F Park 4281
- Simonda, Miss A. A., Stenographer and
Clerk, Anthropology
1815 Short st Bkly 3299J
- †Simonton, F. V., Asst. Prof. of Operative
Dentistry (D)
450 Irving st, S F Snt 3371
- †Simonton, G. W., Instr. in Physiology (D)
2260B Market st, S F Mrkt 6250
- †Simpson, Miss M. E., Asst., Anatomy (to
Dec. 31, 1919)
481 Pedestrian way, O Pied 6961J
- Sinai, Miss M., Technician, Clinical Laboratories (M)
1485 Sixth av, S F Snt 902
- Singleton, Miss C. B., Instr. in French
425 W-1934 Berkeley way Bkly 7829J
- †Slate, F., Prof. of Physics, Emeritus
2231 College av Bkly 838
- †Smiley, F. J., Asst. Prof. of Economic
Botany and Asst. Botanist in the
Agr. Experiment Station
306 HM-1531 Arch st Bkly 375W
- †Smith, A., Asst. Prof. of Soil Technology
320 Hilgard
- †Smith, C. O., Instr. in Plant Pathology
in the Citrus Experiment Station and
Graduate School of Tropical Agriculture
Riverside
- Smith, Miss E. H., Asst. Prof. of Plant
Pathology
309 AH-2500 Bancroft way Bkly 1848
- Smith, Miss F. E., Asst., Agr. Extension
Chamber of Commerce, San Diego
- †Smith, I. F., Cashier
University Farm, Davis
- Smith, Miss J. E., Clerk and Typist, Comptroller's Office
1531A Arch st Bkly 1488J
- †Smith, J. F., Asst., Chemistry
2001 Alston way Bkly 6710
- †Smith, L. B., Asst. Prof. of Agr. Extension
3 AH-2830 Garber st Bkly 6454
- Smith, Mrs. M. O., Clerk, Univ. Extension
2731 Grant st Bkly 7961J
- *†Smith, P. E., Asst. Prof. of Anatomy
(M) (absent on leave to Feb. 29,
1920)
3 Anat-1513 Scenic av Bkly 8767J
- *†Smith, R. E., Prof. of Plant Pathology
134 Serrano av, Los Angeles
- †Smith, R. K., Asst. Clinical Prof. of Obstetrics (M); Visiting Obstetrician,
U C Hospital (Hosp)
2600 Jackson st, S F Flmr 554
- Smith, W. B., Asst., Otology, Rhinology
and Laryngology (M)
391 Sutter st, S F Dgls 4138
- Smithson, G. A., Asst. Prof. of English,
Univ. Extension
2318A Bancroft way Bkly 8361J
- Smyth, E. F., Instr. in Agr. Extension
Madera
- *Smyth, F. S., Student Fellow in Research
Medicine (HF) (to Dec. 31, 1919)
1398 Fifth av, S F
- Smythe, R., Reader, History
2509 Hearst av Bkly 1151W

- †Solomon, A., Asst. Prof. of French
464 W-2427 Durant av Bkly 8390J
- Solomon, W. O., Asst., Surgery (M); Resi-
dent, S F Hospital (Hosp)
S F Hospital, S F Man 827
- Sooy, Mrs. L. P., Instr. in Fine Arts (S)
- Spalding, Miss H. G., Organizer in Los
Angeles, Univ. Extension
134 N Gates st, Los Angeles Pico 140
- †Spencer, G., Mechanician, Mining
3100 Benvenue av Bkly 2854
- Sperry, Miss P., Instr. in Mathematics
417 W-1421 Hawthorne ter Bkly 8816J
- Splars, Miss K., Instr. in English (S)
661 N Berendo av, Los Angeles
- Sprague, Miss B., Secretary and Libra-
rian, Architecture
2019 Cedar st Bkly 1988W
- †Sproul, R. G., Asst. Comptroller, Asst.
Secy. of the Board of Regents, and
Asst. Land Agent
220 Cal-1403 Grant st Bkly 8486J
- Spurrier, F. M., Asst., Agr. Extension
Stockton Stkn 4860
- *Stabler, W. H., Asst., Veterinary Science
Letterman General Hospital, S F
- †Stackpole, R., Prof. of Sculpture (A)
712 Montgomery st, S F Sutr 4897
- Stadtmuller, Miss E. S., Instr. in Pediat-
rics (M); U O Hospital, Out-Patient
Dept. (Hosp)
819 Eddy st, S F Frkn 553
- †Staehling, C. O., Lectr. in Accounting
21 W-2533 Channnig way Bkly 6201J
- †Stamper, W. R., Mechanician, Physics
2454 Derby st Bkly 1907W
- Stanton, Miss L. A., Reader, Mathematics
2300 Durant av Bkly 8471W
- Starratt, F. W., Technical Asst., Ophthal-
mology (M)
1635 Channing way Bkly 2916W
- Staunton, C. C., Instr. in Agr. Extension
Ventura
- Stebbins, Miss L. W., Dean of Women and
Assoc. Prof. of Social Economy
205 Cal-M Tu Th F, 9-12; Tu Th, 2-4
2731 Durant av Bkly 7386
- Stedman, Miss L. M., Training School
Teacher in charge of Fifth Grade (S)
2041 W Twenty-eighth st, Los Angeles
73828
- Steed, D. V., Asst., Mathematics
420 W-1235 Grove st Bkly 7826J
- Steel, Miss Carolyn, Asst., Chemistry
Treehaven apta Bkly 8899W
- Steel, Miss C. M., Editorial Asst., Re-
corder's Office
2926 Wheeler st Bkly 4908W
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Dentistry (D)
862 Baker st, S F West 8438
- Steinbeck, Miss O. E., Asst., Agr. Exten-
sion
Redding
- †Steindorff, P., Choragus
200 HM-5302 Broadway, O Pied 3485
- Steiner, Miss H. J., Senior Bookkeeper,
Comptroller's Office
5945 Kieth av, O Pied 4360J
- Steinhart, Miss R., Social Worker (Hosp)
1899 California st, S F Papt 3173
- Stelter, B. F., Asst. Prof. of English (S)
1083 W Thirty-fifth st, Los Angeles
- †Stevens, F. C., Chief Clerk, President's
Office
1240 Grove st Bkly 4511W
- Stevenson, Miss M., Physiotherapist (Hosp)
2191 Pine st, S F Flmr 1258
- Stevenson, Miss O. L., Stenographer, Agri-
culture
2406 Bancroft way Bkly 6428
- †Stewart, G. R., Asst. Prof. of Agr. Chem-
istry (resigned Dec. 31, 1919)
14 FCL-1639 La Vereda st Bkly 1363W
- Stewart, G. R., Asst. in English
410 W-2001 Allston way Bkly 6710
- Stewart, Miss K., Clerk to Appt. Sec'y (S)
648 N Harvard blvd, Los Angeles
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249 Chem-2606 Bancroft way Bkly 2617
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Clinical Laboratories (Hosp)
1234 Second av, S F Snst 1070
- Stock, C., Research Asst., Palaeontology
205 Bacon-492 Seventh st, S F
- Stoddard, T. A., Asst. in Orthopedic Sur-
gery (M)
291 Geary st, S F Gfd 1457
- Stohl, Miss S. A., Physiotherapist (Hosp)
8881 Sacramento st, S F Pac 9529
- †Stone, B., Asst., Dermatology (M); S F
Hospital Service (Hosp)
4112 Twenty-fourth st, S F Msn 609
- Stone, P. M., Stenographer, Agriculture
2208 Ward st Bkly 6181J
- Stone, Miss R. L., Edith Claypole Research
Asst., Pathology (M)
1074 Dolores st, S F Valen 3697
- *†Storer, Mrs. R. R., Anaesthetist, Infirmary
2804 Piedmont av Bkly 1461W

- †Storer, T. I., Field Naturalist, Calif. Museum Vertebrate Zoology
9 MVZ-2804 Piedmont av Bkly 1461W
- †Stratton, G. M., Prof. of Psychology
9 P-55 Canyon rd Bkly 5354W
- Stricklen, E. G., Asst. Prof. of Music
F-M W, 2-3
472 Thirty-eighth st, O Pied 1537W
- Strohmeier, Miss E. A., Secretary, Bureau of Lectures, Univ. Extension
2511 Channing way Bkly 8051W
- Sturges, Miss H. H., Secy., Dept. Physical Education for Women
2333 Channing way Bkly 3215
- Sturm, Miss M., Asst. in French
102 W-1629 Euclid av Bkly 2094W
- †Sturtevant, Mrs. E. P., Asst. Librarian (S)
1033 Cole av, Los Angeles
- †Suggett, A. H., Prof. of Orthodontics (D)
915 Butler bldg, S F Krny 1428
- Sullivan, C. E., Instr. in Agr. Extension
Yuba City
- Sullivan, Miss J. C., Stenographer, S F Office, Comptroller's Office
769 Elizabeth st, S F Men 2112
- Sullivan, Miss N. B., Instr. in Psychology (S)
1311 McCollum av, Los Angeles 558494
- Sullivan, O. S., Chief, Property and Supplies Dept. (Hosp)
795 Cole st, S F
- †Sumner, F. B., Assoc. Prof. and Biologist in the Scripps Institution for Biological Research
La Jolla
- †Sundstroem, E. S., Instr. in Biochemistry (M)
111 PL-2527 Channing way Bkly 3125J
- †Surr, J. G., Field Asst., Citrus Experiment Station
Riverside
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824 Fifth st, Santa Monica
- Sutton, J., Recorder of the Faculties
m204 Cal-2301 Prospect st Bkly 2068
- Sutton, Mrs. M., Junior Bookkeeper, Comptroller's Office
114 Cal-1491 Thirty-fourth st, O
- Swafford, C. C., Emergency Instr. in Civil Engineering
304 CE-2000 Durant av Bkly 5982
- †Swafford, P. A., Instr. in Civil Engineering (resigned Dec. 31, 1919)
2909 Hillegass av Bkly 8149J
- Swainson, Miss A., Instr. in Textiles
101 HE-2527 LeConte av Bkly 3498
- Swanson, Miss V. A., File Clerk, Univ. Extension
301 Cal-2811 Mathews st
- †Swarth, H. S., Curator of Birds, Calif. Museum of Vertebrate Zoology
2906 Pine av
- Sweeney, Miss M. A., Technical Asst. (HF)
U C Medical School, S F
- Sweet, R. W., Instr. in Anatomical Illustration (M)
U C Hospital, S F
- †Sweetland, R. E., Asst. in English
440 W-2113 1/2 Delaware st
- Tabor, Miss A. P., Instr. in German
402 W-1421 Hawthorne ter Bkly 8816J
- †Talbot, T. J., Asst. Prof. of Pomology (resigned Nov. 30, 1919)
- Talbot, P., Asst. Prof. of Agr. Extension
Redding
- Taliaferro, N. L., Instr. in Geology
104 Bacon-Faculty Club Bkly 2855
- Tapscott, Miss K. I., Secy., Dept. of Class Instruction, Univ. Extension
301 Cal-1721 Madera av Bkly 6064J
- *†Tasheira, A. G., Lectr. in Law
208 Oakland Bank of Savings bldg, O Lksd 1300
- Tasker, H. G., Asst., Physics
1745 Lincoln st
- Taussig, L., Asst., Pathology, Asst., Dermatology (M); Out-Patient Dept., U C Hospital (Hosp)
2450 Fulton st, S F Pac 1619
- Tavernetti, T. F., Asst. Prof. of Farm Practice and Asst. to the Dean of the University Farm School
University Farm, Davis
- Taylor, A., Instr. in Gynecology and Obstetrics (M)
240 Stockton st, S F Grfd 210
- †Taylor, E. R., Prof. of Law, Emeritus (H)
2326 California st, S F Flmr 544
- Taylor, L. W., Asst., Agr. Extension
106 AH
- †Tays, Miss L., Asst. in Spanish (to Dec. 31, 1919)
2641A Channing way Bkly 2276W
- †Teggart, F. J., Assoc. Prof. of Social Institutions
413 W-1532 Scenic av Bkly 2470
- Teller, Miss R. V., Stenographer, Citrus Experiment Station
175 N Orange st, Riverside

- Temperli, E. R., Asst., Agr. Extension
Hayward
- †Terry, W. I., Prof. of Surgery and Acting
Dean of the Medical School (M) Sur-
geon-in-Chief (Hosp)
240 Stockton st, S F Bkly 25
Thaxter, Miss O. V., Stenographer, Me-
chanics
1665 Shattuck av Bkly 6615W
- †Thiele, H., Asst., Astronomy (LO)
Mt. Hamilton
- Thomas, Miss E., Instr. in English (S)
540 S Hope st, Los Angeles
- †Thomas, E. E., Instr. in Agr. Chemistry
in Graduate School of Tropical Agri-
culture, Citrus Experiment Station,
Riverside
- ††Thomas, W. S., Asst. Prof. of Education
and Examiner of Schools
2387 Eunice st Bkly 1998
- †Thompson, J. I., Assoc. Prof. of Animal
Husbandry
University Farm, Davis
- Thompson, J. R., Asst. to the Prof. of
Military Science and Tactics
1811 Bonita av
- Thomson, H. S., Instr. in Surgery (M);
Visiting Surgeon, S F Hospital Ser-
vice (Hosp)
2539 College av Bkly 6715
- †Tippett, J. E., Asst., Agr. Extension
87 Euclid apts Bkly 6058W
- †Titus, C. M., Instr. in Mathematics (FS)
University Farm, Davis
- †Tobin, M. J., Bookkeeper, Comptroller's
Office
110 Cal-1414 McGee av Bkly 6682
- Tocher, W. J., Asst., Agr. Extension
Santa Cruz
- †Tolman, E. C., Instr. in Psychology
2 P-1609 LeRoy av Bkly 6178W
- Tommasini, Miss M. T., Instr. in Italian
480 W-1629 Euclid av Bkly 2094W
- Torrey, I. F., Instr., Agriculture
University Farm, Davis
- Tostenson, F. O., Asst. in French
480 W-2536 Bancroft way Bkly 7997
- *Tranter, C. L., Asst., Neurology (HF)
- †Traum, J. A., Assoc. Prof. of Veterinary
Science
101 Budd-1945 Haste st Bkly 4522
- Trieb, M. H., Special Asst., Physical Edu-
cation for Men
2214 Derby st Bkly 1889W
- Trimmer, Miss L., Asst., Anaesthesia (M);
Anaesthetist, Hahnemann Hospital-
(Hosp) (resigned Oct. 1, 1919)
- †True, G. H., Prof. of Animal Husbandry
University Farm, Davis
- †Trumpler, R. J., Martin Kellogg Fellow,
Astronomy (LO)
Mt. Hamilton
- Tubbs, D. W., Asst., Agr. Engineering
University Farm, Davis
- †Tucker, E. H., Lectr. in Banking
Federal Reserve Bank, S F Sutr 3820
- †Tucker, R. H., Astronomer
Mt. Hamilton
- Tufts, C. O., Instr. in Dental Roentgenol-
ogy (D)
932 Butler bldg, S F Grfid 484
- †Tufts, W. P., Asst. Prof. of Pomology
University Farm, Davis
- †Turner, H. S., Asst. in Spanish
475 W-1829 Walnut st Bkly 5231W
- †Turner, L. M., Asst. Prof. of French
463 W-2707 Virginia st Bkly 7896
- †Tuttle, W. P., Asst., Soil Technology (re-
signed Jan. 1, 1920)
- Twitchell, E., Instr. in Medicine (M)
909 Hyde st, S F Frkn 4099
- Ueland, Miss E., Asst., Physical Education
3 H-Euclid apts Bkly 6622
- Uford, Miss H. M., Secretary, Infirmary
2980 Harper st Bkly 2387W
- Uhl, K., Teaching Fellow, History
Faculty Club Bkly 2855
- †Underhill, L. K., Asst. Prof. of Military
Science and Tactics, Executive Officer,
Personnel Adjutant
Mil-2435 Russell st Bkly 7975W
- †Underhill, R. M., Asst. Accountant, Compt-
roller's Office
1529 Josephine st Bkly 9593W
- †Uren, L. O., Assoc. Prof. of Mining
216 HM-2428 Tyler st Bkly 3920J
- Urner, Miss C., Teaching Fellow, Zoology
1700 Walnut st Bkly 6453
- Vail, Miss K. R., Chief Dietitian (Hosp)
U C Hospital, S F Snst 3600
- †Vaile, R. S., Asst. Prof. of Orchard Man-
agement in the Citrus Experiment
Station and Graduate School of Trop-
ical Agriculture
Citrus Experiment Station, Riverside
- Valerga, Miss M., Editorial Asst., Record-
er's Office
520 Fifty-eighth st, O Pied 5129W

† Absent visiting schools, second half-year, 1919-20.

- Van Camp, Miss M., Asst. in Agr. Extension
Farm Bureau Office, Merced
- Vandervoort, R., Teaching Fellow, Public Speaking
462 W-2438 Durant av Bkly 8757W
- †Van Dyke, E. C., Asst. Prof. of Entomology
203 AH-1545 LeRoy av Bkly 4178J
- †Van Fleet, A. C., Asst. Prof. of Law (H)
405 Crocker bldg. S F
- Vanleer, B. R., Instr. in Mechanical Engineering
27 M-2218 Durant av Bkly 1934W
- †Van Norman, H. E., Prof. of Dairy Management, Vice-Director of the Agr. Experiment Station and Dean of University Farm School
University Farm, Davis
- †Van Nostrand, J. J., Asst. Prof. of Ancient History
30 W-2539 Durant av Bkly 5945
- Vansell, Mrs. J. B., Stenographer, Agr. Extension
2001 Channing way Bkly 315
- Van Wagenen, Miss S., Secretary to Director of Hospitals (Hosp)
1290 Clayton st, S F Mrkt 4136
- †Varney, B. M., Instr. in Meteorology
9B Bacon-2314 Dwight way Bkly 8924J
- Vaughn, Mrs. B. W., Teacher of Voice (S)
1324 S Figueroa st, Los Angeles 60371
- †Veihmeyer, F. J., Asst. Prof. of Irrigation Investigations
220 Federal bldg Bkly 4197
1336 Oxford st Bkly 3317J
- Visalli, J., Asst., Surgery (M); Asst. Visiting Surgeon, S F Hospital (Hosp)
2995 Twenty-second st, S F Msn 2835
- †von Hungen, Mrs. M. J., Asst. in German
1513 Walnut st
- †von Neumayer, C. D., Assoc. Prof. of Public Speaking
423 W-2836 Garber st. Bkly 8562J
- Voorhies, E. C., Asst. Prof. of Animal Husbandry and Asst. to the Dean of the College of Agriculture
111 AH-2801 Russell st Bkly 7633J
- Wadsworth, H. A., Asst., Irrigation Investigations, Agriculture
University Farm, Davis
- †Waddle, C. W., Assoc. Prof. of Education (S)
2080 Mound st, Hollywood 577184
- Waibel, W. C., Secretary, Education
859 Arlington av Bkly 6935
- Wahlberg, H. E., Instr. in Agr. Extension
Santa Ana Pac 549
- †Walker, E. L., Assoc. Prof. of Tropical Medicine (HF) (M)
Hooper Research Lab, S F Snt 600
- Walker, Miss J., Asst., Abnormal Psychology (M); U C Hospital Clinic (Hosp)
5 Alta Vista ter, S F Pspt 4236
- Walker, J. H., Instr., Stenography and Typing, Univ. Extension
2216 Channing way Bkly 5631
- Wallace, G. B., Organizer in Stockton, Univ. Extension
Farmers and Merchants Bank, Stockton
- †Wallace, Mrs. M. H., Asst. Prof. of Physical Education (S)
914 S Alvarado st, Los Angeles Wilshire 3535
- Wallop, Miss E. L., Training Teacher in charge of Second Grade (S)
666 Carondelet st, Los Angeles 50034
- Walton, Miss E. L., Asst. in English
406 W-2947 Magnolia av Bkly 7846W
- Wank, M. E., Asst., Soil Technology
711 Twelfth av, S F Pac 8345
- †Warburton, A., Preparator, Anthropology
431 Anza st, S F Pac 186
- Waring, Miss E. B., Training Teacher in charge of First Grade (S)
- †Warren, S. L., Student Fellow (HF) (to Dec. 31, 1919)
600 Geary st S F Frkn 4122
- Washburn, H. L., Instr. in Agr. Extension
4 Cooper st, Santa Cruz
- †Washburn, J. B., Instr. in Accounting
21 W-2536 Regent st Bkly 4041J
- †Washburn, O. M., Assoc. Prof. of Classical Archaeology and Acting Manager of the Univ. Press
Univ Press-30 Arden rd Bkly 2221
- Washburn, W. W., Asst., Surgery (M); Asst. Resident University Hospital (Hosp)
U C Hospital, S F
- †Waterhouse, W. G., Asst., Agr. Extension
857 Court House, Los Angeles
- †Watkins, D. E., Asst. Prof. of Public Speaking; Asst. Prof. of Public Speaking, Univ. Extension
423 W-2962 Piedmont av Bkly 8343
- Watkins, J. T., Lectr. in Orthopedic Surgery (M)
Medical bldg, S F Pspt 4100
- †Way, A. E., Field Asst., Viticulture
University Farm, Davis

- †Waybur, J. R., Music Organizer, Univ. Extension
303 Cal-795 Pine st, S F Grfd 87
- Wearne, Miss L. M., Stenographer, Citrus Experiment Station
Riverside
- †Webber, H. J., Prof. of Plant Breeding, Director of Agr. Experiment Station
110 AH-Faculty Club Bkly 2855
- †Weeks, A., Asst. Clinical Prof. of Surgery (M); S F Hospital Visiting Surgeon (Hosp)
850 Post st, S F Krny 49
- †Weeks, W. S., Assoc. Prof. of Mining
101 HM-1581 LeRoy av Bkly 538J
- †Weinland, H. A., Asst. Prof. of Agr. Extension
Chamber of Commerce, San Diego
- †Weir, W. W., Asst. Prof. of Soil Technology
320 Hilgard-5537 Taft av, O Pied 7538
- Wells, Miss B. E., Asst. Supervisor of Practice (S)
211 Peyton av, Eagle Rock
- Wells, Miss M. C., Stenographer, Inventory, Comptroller's Office
2005 Webster st, O Oakd 6030
- †Wells, C. W., Prof. of English Composition
450 W-2243 Piedmont av Bkly 5543W
- West, Miss E., Librarian (Hosp)
350 Frederick st, S F Park 2636
- †Westwater, D., Helper and Apparatus Caretaker, Physics
1927 Bonita av
- †Wheeler, B. I., President Emeritus of the University and Prof. of Comparative Philology
126 L-2425 Ridge rd Bkly 1413
- Wheeler, B. W., Teaching Fellow, History
2425 Ridge rd Bkly 1413
- †Whipple, G. H., Prof. of Research Medicine (M); Director of the Hooper Foundation for Medical Research (HF)
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- †White, C. L., Business Agent, Southern Branch (S)
832 N Mariposa av, Los Angeles 599699
- White, Miss F. M., in charge of Mimeographing, Univ. Extension
476 Hardy st, O Pied 6022W
- White, Miss G. A., Departmental Secretary, Drawing and Art
2234 E Nineteenth st, O
- †White, H. G., Curator in Osteology, Calif. Museum Vertebrate Zoology
6 MVZ-2339 Ellsworth st
- White, S. A., Clinical Instr. in Operative Dentistry (D)
50 Hillway av, S F Snst 42
- Whitice, Miss B. H., Instr. in Industrial Arts (S)
R. F. D. No. 1, Box 985, Los Angeles
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1398 Fifth av, S F
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2345 Divisadero st, S F Dgls 1908
- †Whitten, J. C., Prof. of Pomology
331 Hilgard-2611 Parker st Bkly 7105W
- Whyte, Mrs. F. M., Social Worker (Hosp)
2061 Mission st, S F Park 5597
- †Wickson, E. J., Prof. of Horticulture, Emeritus
102 AH-2723 Bancroft way Bkly 3891
- Wickson, Miss K. R., Junior Asst., Library
2723 Bancroft way Bkly 3891
- *Wiebalk, Miss A. M., Instr. in Education (S)
- Wiel, H., Instr. in Medicine (M)
Butler bldg, S F Sutr 1458
- †Wight, E. H., Instr. in Physical Education
HG-3026 Colby st Bkly 7817J
- Wilber, A. C., Asst. Chemist, Insecticide Laboratory
Faculty Club Bkly 2855
- Wilcox, F. H., Asst. in English
410 W-1709 La Loma av Bkly 3616J
- †Wiley, H. R., Special Lectr. in Pharmacal Jurisprudence (Ph)
2545 Benvenue av Bkly 3902W
- Wikie, Mrs. E., Office Asst., University Press
2509 Cedar st Bkly 6116W
- †Wilkinson, W. S., Jr., Asst., Agronomy
University Farm, Davis
- †Willard, W. P., Instr. in Urology (M)
177 Post st, S F Dgls 5726
- Williams, A. M., Asst., Chemistry
2435 Haste st Bkly 1980
- Williams, Miss A. W., Instr. in Household Science
210 HE-2520 Ridge rd Bkly 8850J
- Williams, B. H., Asst., Economics
2122 Bancroft way

- †Williams, E. T., Agassiz Prof. of Oriental Languages and Literature
453 W-1410 Scenic av Bkly 3607
- Williams, Miss W., Training Teacher, Eighth Grade (S)
- †Williams, W. H., Instr. in Physics
800 S-5467 Shafter av, O Pied 5876
- Williamson, Miss J. N., Asst., Graphic Art
100 D-1635 LeRoy av Bkly 4527W
- Willits, Mrs. E. K., Asst. Clinical Prof. of Surgery (M); Chief, Children's Hospital Service (Hosp)
240 Stockton st, S F Grfd 341
- †Willoughby, E. P., Laboratory Asst., Mining
2538 Buena Vista way
- Wills, Miss E. M., Dietitian, Hahnemann Hospital (Hosp)
73 Commonwealth av, S F Pac 83
- Wilson, B., Technician, Biochemistry (M)
PL Local 127
- Wilson, G. H., Instr. in Animal Husbandry
University Farm, Davis
- Wilson, J. F., Asst. Prof. of Animal Husbandry
University Farm, Davis
- †Wilson, P. L., Asst., Botany
2612 Dana st
- †Wilson, R. N., Asst. Prof. of Agr. Extension
Telephone bldg, Riverside Men 254
- Windham, Miss G. M., Office Manager, S F Offices, Univ. Extension
2539 Durant av
- Windrom, R., Helper, Veterinary Science Laboratory
2410 Fifth st Bkly 5194W
- †Wiskocil, C. T., Asst. Prof. of Civil Engineering
106 CE-1530 Spruce st Bkly 8216J
- Witter, Miss E. L., Social Worker (Hosp)
2324 Carlton st Bkly 4409W
- Woelfel, Miss L. M., Anaesthetist (M) (resigned Oct. 1, 1919)
- †Woll, F. W., Prof. of Animal Nutrition
University Farm, Davis 45R
- †Wong, B. C., Reader, Mathematics
1917 Addison st Bkly 5779W
- Wood, M. N., Asst., Pomology
University Farm, Davis
- Woodford, Miss M. L., Instr. in Physical Education
2 H-2500 Durant av Bkly 540J
- Woodhouse, E. D., Asst., Soil Chemistry and Bacteriology
Faculty Club Bkly 2855
- Woodman, M. A., Instr., Agriculture
University Farm, Davis
- Woods, Miss B. E., Junior Bookkeeper, Comptroller's Office
110 Cal-2305 Bancroft way Bkly 7461
- †Woods, B. M., Prof. of Aerodynamics and University Examiner
28 M and 201 Cal-3038 Hillegass av Bkly 1677J
- Woodward, H. M., Asst., Economics
2329 Fulton st
- †Woodworth, C. W., Prof. of Entomology
200 AH-2237 Carlton st Bkly 2154
- Woodworth, Mrs. M. H., Instr. in Agr. Extension
Farm Bureau Office, Riverside
- Woolf, M. S., Asst., Surgery (M); Resident Surgeon, University Hospital (Hosp)
U C Hospital, S F Snst 3600
- Woolsey, J. H., Instr. in Surgery (M); Executive Officer (Hosp)
U C Hospital, S F Snst 3600
- Wray, R., Field Asst. in Irrigation
University Farm, Davis
- †Wright, A. T., Prof. of Law
216 Boalt-2250 Prospect st Bkly 1784W
- Wright, Miss F. A., Asst. Prof. of Music (S)
680 Carondelet st, Los Angeles
- Wright, H. W., Asst., Psychiatry (M); Visiting Psychiatrist, Hahnemann Hospital (Hosp)
- Wright, W. C., Clinical Instr. in Operative Dentistry (D)
850 Post st, S F Grfd 1958
- †Wright, W. H., Astronomer (LO)
Mt. Hamilton
- Wulzen, Miss R., Instr. in Physiology (M)
204 PL-2447 Carlton st Bkly 2154
- Wythe, Miss M. W., General Asst., Calif. Museum of Vertebrate Zoology
4247 Terrace st, O Pied 7235W
- †Wythe, W. J., Asst. Prof. of Mechanical Drawing
301 D-15 Hill rd, O Pied 5791
- Yerkes, Miss N., Reader, History
2116 Channing way Bkly 8680
- Young, Miss L. R., Stenographer, Agriculture
University Farm, Davis.
- Youngquist, Miss W. G., Clerk, Comptroller's Office
2281 Durant av Bkly 5710W
- Zimmerman, J. E., Instr. in Materia Medica, Botany and Pharmacognosy (Ph)
1298 Ninth av, S F Snst 1024

STUDENTS IN THE UNIVERSITY

A. THE COLLEGES AT BERKELEY

Letters and Science, Commerce, Agriculture, Mechanics, Mining, Civil
Engineering, Chemistry, Architecture, Education, Jurisprudence
and the first two years in Medicine

1. GRADUATE STUDENTS

Abbay, Camille Leonie	Berkeley	Allen, Harry Clifford, Jr.	Pasadena
A.B. 1917		A.B. (Harvard University) 1915; cand.	
¹ / ₂ LS-2622 Hilgard av		J.D.	
Adams, Dorothy Eleanor	Denver, Colo.	8 Juris-2350 Prospect st	Bkly 3620J
A.B. 1916 and M.A. 1917	(University of	Allen, John Alban	Salt Lake City, Utah
Colorado); cand. Ph.D. (English)		A.B. (Yale University) 1915	
8 LS-Hotel Whitecotton	Bkly 7300	¹ / ₁ LS-2438 Durant av	Bkly 8575W
Ahern, Margaret Mary	San Francisco	Allen, Mabel Josephine	Claremont
A.B. 1919		A.B. (Pomona College) 1918	
¹ / ₁ LS-2627 Hearst av	Bkly 4009	¹ / ₁ LS-2418 College av	
Ahlstrom, Eleanor Christina	Los Angeles	Alltucker, Margaret May	Elk Grove
A.B. (University of Redlands) 1919		B.L. 1914; M.A. 1919	
1 LS-2531 Ellsworth st	Bkly 4437J	3 LS-5862 Birch Court, O	Pied 6167W
Ahnstedt, Esther Eleanor	Turlock	Almquist, John Arthur	Moscow, Idaho
A.B. 1919		B.S. (University of Idaho) 1919	
1 LS-2386 Grove st	Bkly 8298J	1 Chem-2336 College av	Bkly 2431
Aitken, Gainor Wilson	San Leandro	Amagata, Yajuro	Berkeley
A.B. (Mills College) 1919		A.B. 1918	
1 LS-460 Breed av, S L	SL 261W	1 LS-3 Eaton Court	Bkly 7312W
Aiton, Arthur Scott	Alameda	Ambrose, Agnes Dolores	Oakland
A.B. 1916; M.A. 1918		A.B. 1918	
3 LS-1240 Broadway, A	Ala 2016	1 LS-696 Twenty-fourth st, O	Oakd 2988
Alderton, Nina May	Berkeley	Ames, Charles	Berkeley
A.B. (Mt. Holyoke College) 1914; M.A.		A.B. (University of Iowa) 1910	
(Columbia University) 1915		7 LS-2540 Grove st	Bkly 167W
1 LS-1711 Allston way		Anderson, Evald	San Francisco
Allen, Ernest Green	Upper Lake	B.S. 1913	
B.L. 1910		¹ / ₁ Chem-1409 Arch st	
¹ / ₁ LS and 2 Med-772 Cole st, S F	Park 4559	Anderson, Isabel Catharine	Santa Ana
		A.B. 1919	
Allen, Harriet Watson	San Diego	1 LS-2519 Ridge rd	Bkly 7614
A.B. (University of Minnesota) 1904;		Andrews, Aileen Ruth	Redlands
B.L. (Lincoln Jefferson University)		A.B. (University of Redlands) 1919	
1913; M.A. 1918; cand. Ph.D. (Eng-		1 LS-2531 Ellsworth st	Bkly 4437J
lish)			
3 LS-2605 Benvenue av	Bkly 5358J		

- Ann, Dien Pan Honan, China
A.B. (Peking Government University)
1919
 ¹1 LS-1917 Francisco st
- Anthony, Elizabeth Price San Jose
B.L. 1913; M.L. 1914
 ²2 LS-2328 Dwight way Bkly 2424W
- Appleford, Carl Williams Los Angeles
A.B. 1919
 1 CE-2240 Telegraph av Bkly 1249
- Armour, Marjorie John Berkeley
A.B. 1916
 2 LS-2400 Haste st Bkly 4596
- Arndt, Stanley M. Stockton
B.S. 1915
 ¹3 Juris-175 Commonwealth av, S F
 Pac 7043
- Arnold, Hubert Rogers San Francisco
A.B. 1918
 ¹1 Med-1281 Second av, S F
- Ashby, Thomas K. B. Sacramento
A.B. 1919
 2 Juris-2538 Durant av Bkly 8361W
- Aster, Alvin Klintworth Alameda
A.B. 1919
 1 LS-910 Chestnut st, A Ala 2219J
- Atcheson, George, Jr. Denver, Colo.
A.B. 1919
 ¹1 LS-2601 Channing way Bkly 5904
- Aten, Henrietta O. Berkeley
A.B. (Washington State College) 1913
 1 LS-2111 Cedar st Bkly 2644J
- Atsatt, Georgia Smith Santa Ana
A.B. (Pomona College) 1917
 ¹1 LS-2350 Prospect st Bkly 3626J
- Atsatt, Rodney Fremont Los Angeles
A.B. (Pomona College) 1918; M.A. 1918
 1 Med-2350 Prospect st Bkly 3620J
- Ayres, Amy Jean Durango, Colo.
A.B. 1919
 1 LS-2421 LeConte av Bkly 3062
- Badgley, Ilma Laura Sonoma
A.B. 1916
 ²2 LS-411 Florence st, Turlock
- Bailey, Ernest Winfield Urbana, Ill.
B.S. (Massachusetts Agricultural College)
1908; M.S. (University of Illinois)
1909; cand. Ph.D. (plant physiology)
 ¹3 Agr-60 Allen pl, Riverside
- Bailey, Ruth Henrietta Denver, Colo.
A.B. 1919
 1 LS-2407 Fulton st Bkly 8885W
- Bailey, Thomas Laval San Francisco
A.B. (University of South Carolina) 1917
 2 LS-2600 Bancroft way Bkly 1901
- Baird, Mabel Anne Alameda
A.B. 1918
 ¹2 LS-1630 LeRoy av
- Baker, Alwyn John Redding
A.B. 1919
 ¹1 LS-1151 Oxford st Bkly 6958J
- Baker, Florence Murphy Berkeley
A.B. (Dublin) 1906; M.A. (Columbia
University) 1910
 ¹2 LS-2109 Shattuck av Bkly 6684
- Baker, Hiram Rufus Redding
A.B. 1919
 ¹1 Juris-2521 Channing way Bkly 9306
- Baker, Paul Everette Medford, Oregon
A.B. (University of Oregon) 1916
 1 LS-1428 Arch st Bkly 1157J
- Ballou, Frederick Herbert Berkeley
A.B. 1917
 ¹1 LS-1025 Ordway st
- Bardwell, Dwight Cooley Salt Lake City, Utah
B.S. 1919; DuPont Fellow
 1 Chem-2141 Berkeley way Bkly 1596
- Barker, A. Lincoln Paso Robles
A.B. (Olivet College) 1908
 1 LS-2752 Piedmont av Bkly 4637J
- Barker, Maurice Eugene San Francisco
Ped.B. (Valparaiso University) 1915
 ¹1 LS-2321 Haste st
- Barker, Pearl Savage, Mont.
Ph.B. (Simpson College) 1906
 ¹1 LS-1615 Arch st
- Barnes, Jesse Wright Mobile, Alabama
A.B. 1917
 ¹2 LS-2435 Haste st Bkly 1980
- Barnes, William H. Berkeley
A.B. (Stanford University) 1916; M.A.
1917
 ¹3 LS-2406 Channing way
- Barnhart, Earl Wingert Berkeley
B.L. 1909
 ¹1 Juris-1512 La Loma av Bkly 4874W
- Bartlett, Bessie Rogers Berkeley
A.B. 1907
 ¹1 LS-1519 Tacoma av Bkly 6731W
- Bartlett, Lester William Berkeley
A.B. (Wheaton College) 1906; M.A. 1908
 ¹1 LS-1519 Tacoma av Bkly 6731W
- Bartlett, William Colwell Los Angeles
A.B. 1919
 2 Juris-2001 Allston way Bkly 6710
- Basford, Bruce Cartwright San Francisco
B.S. 1917
 1 Juris-2500 Durant av Bkly 2500
- Basinger, Almon Jay Columbiana, Ohio
A.B. (Ohio State University) 1918
 ¹1 Agr-1815 Short st Bkly 3299J
- Bates, Phyllis Leah Tuolumne
A.B. 1918
 ¹2 LS-1634 Walnut st Bkly 1730W
- Batterman, Idalene Bray Calistoga
B.S. 1918
 ¹1 LS-2401 Ellsworth st Bkly 5281W

- Baugh, Max Carlton Corning
A.B. 1919
*1 LS-2419 Durant av Bkly 9149
- Bayley, Florence Machen
Cape Girardeau, Missouri
B.Pd. 1907 and A.B. 1911 (Southeast
Missouri Teachers' College)
1 LS-2700 Hillegass av Bkly 33
- Beard, Florence L. Sacramento
A.B. 1919
*1 LS-2638 Russell st Bkly 3419J
- Beatty, Earl Wilbur Chico
A.B. 1916
*2 LS-760 Duboce av, S F Park 2181
- Beatty, Willard Walcott San Francisco
B.S. 1913
1 LS-46 Eastwood dr, S F Rand 1190
- Beck, Anne Louise Ferndale
A.B. 1918
*2 LS-1636 Josephine st Bkly 3443W
- Beckstrom, Elmer Gust Kingsburg
A.B. (Stanford University) 1917
1 LS-Chemistry Building, Campus
- Beckwith, Theodore Day Corvallis, Oregon
B.S. 1904 and M.S. 1907 (Hamilton Col-
lege); cand. Ph.D. (bacteriology)
1 LS-2007 Carlton st
- Beekhuis, Grace Houdijn Hanford
A.B. 1919
1 LS-2406 Bancroft way Bkly 6406
- Beeman, Gladys Evelyn Tuolumne
A.B. 1919
*1 LS-2228 Chapel st Bkly 4558
- Bell, Clair Hadyn Berkeley
B.L. 1908; M.L. 1909; cand. Ph.D.
(German)
*6 LS-2301 Ward st Bkly 7879W
- Bell, Russell White San Francisco
A.B. 1919
1 Juris-2601 Channing way Bkly 5904
- Bennett, Carrie Lee Springfield, Missouri
B.S. (University of Missouri) 1917
*3 LS-2218 Dana st Bkly 3267
- Bennink, Lois Margaret Whittier
A.B. (Whittier College) 1919
1 LS-2217 Atherton st Bkly 7251J
- Benton, Lois Bruly Berkeley
A.B. 1917
*1 LS-Morrill apts Bkly 1984W
- Benton, Ralph Berkeley
B.S. (Montana State College) 1906; B.L.
1907; M.S. 1909; M.A. (University of
Southern California) 1914
*6 LS-2527 LeConte av Bkly 8498
- Bepler, Doris West San Francisco
A.B. 1917; Native Sons Fellow
3 LS-2539 Durant av Bkly 923
- Berg, Willis Erneat Flagstaff, Ariz.
B.S. (Kansas Agricultural College) 1911
*1 LS-2713 Dana st
- Bergfried, Helen Berkeley
A.B. 1918; M.A. 1919; cand. Ph.D.
(botany)
2 LS-1933 Berryman st Bkly 2829W
- Berringer, Edwin John Sacramento
B.L. 1906; M.L. 1907
*2 LS-2538 Durant av Bkly 8361W
- Bigelow, Louise Emeline Berkeley
A.B. 1919
*1 LS-2333 Channing way Bkly 6062
- Binkley, William Campbell Santa Ana
A.B. 1917; M.A. 1918; cand. Ph.D.
(history)
3 LS-2420 Ellsworth st Bkly 6902W
- Bischoff, Adele Johanne Berkeley
A.B. (University of Kansas) 1916
1 LS-2508 Ridge rd Bkly 3637J
- Bishop, Miriam Claremont
B.L. 1912
*2 LS-2740 Garber st Bkly 3774J
- Bissell, Ruth A. Fresno
A.B. 1919
*1 LS-1325 Spruce st Bkly 999W
- Bjarnason, Stefan Agust Winnipeg, Manitoba
A.B. 1911 and B.S.A. 1915 (University
of Manitoba)
*1 Agr-2023 Delaware st Bkly 1046
- Bjork, David K. Stockholm, Sweden
A.B. 1919
1 LS-1328 Oxford st
- Black, Harold Alfred San Francisco
A.B. 1917
2 Juris-2522 Ridge rd Bkly 5950
- Blakeley, Sibyl Dickinson Hanford
A.B. 1919
1 LS-927 Oxford st Bkly 2436W
- Blessing, Carmen Urcell Oakland
A.B. 1919
1 LS-1214 Walnut st Bkly 2050J
- Bliss, Howard Hamilton Oakland
B.S. 1909; M.S. 1913
*6 Mec-3010 Colby st Bkly 7136W
- Blockman, Lazar E. Berkeley
A.B. 1917
*1 LS-2434 Bowditch st Bkly 6384
- Bloomenshine, L. Lockwood Berkeley
A.B. (Fairmont College) 1919
*1 LS-1996 University av
- Blume, Helen Mary Oakland
A.B. 1919
1 LS-986 Sixtieth st, O
- Boelter, Llewellyn Michael Kraus
Latah, Washington
B.S. 1917; M.S. 1918
3 Mec-2216 Parker st Bkly 3331
- Boies, Jessie Caroline Berkeley
A.B. 1919
1 LS-1726 Walnut st Bkly 5483

- Bolin, John Siegfried Berkeley
A.B. (Stanford University) 1912; M.A.
1915; cand. Ph.D. (education)
8 LS-1547 Shattuck av Bkly 1952J
- Bond, Lewis A. Eugene, Ore.
B.S. 1918 and M.S. 1917 (University of
Oregon)
1 LS-Bacon Hall, Campus
- Bonner, Miriam Young Azusa
A.B. 1919
1 LS-1549 LeRoy av Bkly 8593W
- Bosley, Bradford W. Berkeley
A.B. 1917; cand. J.D.
3 Juris-2720 Derby st Bkly 4088
- Bostick, Merrie Tully Ft. Worth, Tex.
A.B. (University of Texas) 1917
1 Juris-2520 Durant av Bkly 1675
- Bothe, Dorothea Thirza San Francisco
A.B. 1918
1 LS-115 Belvedere st, S F Park 4981
- Boulware, Alexander Stockton Piedmont
A.B. (Stanford University) 1903
3 LS-325 Ramona av, P Pied 7214W
- Bowhay, Arnold Angel, Jr. Reno, Nev.
E.M. (Colorado School of Mines) 1914
2 LS-1338 Eighth av, S F Snt 3693
- Bowles, Carl Percy Berkeley
A.B. 1914
14 LS-1841 Marin av Bkly 4461W
- Bowling, Emily Eileen Adams, Oregon
A.B. 1919
1 LS-2327 Bancroft way Bkly 1061W
- Bradbeer, Bessie Dale Los Angeles
B.S. (Occidental College) 1919
1 LS-2629 Haate st Bkly 3287
- Braffet, Maud Virginia Salt Lake City, Utah
A.B. 1919
1 LS-2400 Piedmont av Bkly 5224
- Bragg, James Monroe Lodi
B.S. (Manual Training Normal School,
Kansas) 1916
1 LS-1809 Euclid av
- Branch, Harriot Esther Berkeley
B.S. (University of Liverpool) 1912;
M.A. 1917
23 Chem-2416 Martinez av
- Brandt, Jesse Christian La Verne
A.B. (Pomona College) 1917
1 LS-2327 Bancroft way
- Brdofsky, Anita H. San Francisco
A.B. 1918
1 LS-3244 Harrison st, S F Man 907
- Breen, Edna Lucile Suisun
A.B. 1918
1 LS-2429 Channing way Bkly 4648
- Brenton, Helen Eugene, Oregon
A.B. (University of Oregon) 1919
1 LS-1526 Hawthorne ter Bkly 8662J
- Bretherton, Mildred Berkeley
A.B. 1915
1 LS-3006 Colby st Bkly 5255W
- Briggs, Laura Jane Berkeley
A.B. 1918
1 LS-1636 Walnut st Bkly 2717
- Brink, Elsie San Francisco
A.B. 1919
1 LS-2511 Durant av Bkly 1762W
- Britton, Helen Los Angeles
A.B. 1919
1 LS-2417 LeConte av Bkly 5650
- Brody, Samuel Berkeley
A.B. 1917; M.A. 1919
2 LS-Physiology bldg, Campus
- †Bronson, Bertram Bethuel Alameda
A.B. (Pasadena University) 1915; B.D.
(San Francisco Theological Seminary)
1919
12 LS—Presbyterian Mission, North Siam
- Brooks, Allie Lee Gooding, Idaho
A.B. (College of Idaho) 1912
1 LS-2630 Bancroft way Bkly 4488J
- Brown, Charles Ayers Glendale
B.S. 1913
1 LS-514 Guerrero st, S F Mrkt 5554
- Brown, Clifton Spencer Berkeley
A.B. 1918
1 Juris-2617 Cedar st Bkly 2002W
- Brown, Dorothy Moore Portland, Oregon
B.L. 1911
12 LS-1541 Hawthorne ter Bkly 8333W
- Brown, Edith Louisa Gaselle
B.S. 1908; M.S. 1909
4 Chem-1840 Taylor st, S F
- Brown, Genevieve Hunter Willows
B.L. 1912
1 LS-2400 Dana st Bkly 2388
- Brown, John Quincy, Jr. Sacramento
A.B. 1918; cand. J.D.
3 Juris-2529 Hearst av Bkly 40
- Brown, Marion Agnes Alameda
A.B. 1916; M.A. 1917
12 LS-1608 Chestnut st, A Ala 2666
- Brown, Russie May Berkeley
A.B. 1918
1 LS-2033b Channing way
- Browne, Edwin Chalmers Boulder Creek
A.B. 1919
1 LS-1919 Bancroft way Bkly 6342J
- Browne, Leta Luella Berkeley
A.B. 1919
1 LS-1919 Bancroft way Bkly 6342J
- Brush, Frank Spencer Berkeley
A.B. (Marietta College) 1878
13 LS-1929 Eldorado av Bkly 5089
- Bryan, Edith Sibyl Pasadena
A.B. (Occidental College) 1914
1 LS-2307 Hearst av Bkly 6815

- Budlong, Julia N. Bismark, North Dakota
A.B. (State University of Iowa) 1918
3 LS-2411 Durant av Bkly 3071
- Buehrer, Theophil Frederic Berkeley
A.B. 1916; M.A. 1918 (University of Texas)
2 Chem-2400 Dwight way Bkly 1322J
- Buffum, Thurlayne Long Beach
A.B. (Stanford University) 1919
1 LS-2709 Channing way
- Bunger, Fred Stuart Durham
A.B. (University of Denver) 1917
1 LS-2606 Dwight way Bkly 139
- Burch, Sarah Aurelia Rickreall, Oregon
A.B. (University of Oregon) 1907
1 LS-2843 Forest av Bkly 8566J
- Burchiel, Bruner Moore Berkeley
A.B. (Southwestern College) 1918
1 Chem-2303 Durant av Bkly 3708W
- Burden, Herbert Spencer Sacramento
A.B. 1919
2 Med-2312 Derby st Bkly 2423W
- Burger, Eugenia Katharina San Francisco
Graduate (Kgl. Kaiserin-Augusta Gymnasium, Berlin) 1906; cand. J.D.
3 Juris-2611 Parker st
- Burgess, Paul Steere Berkeley
B.S. (Rhode Island State College) 1910;
M.S. (University of Illinois) 1911;
University Fellow in Soil Chemistry;
cand. Ph.D. (soil chemistry)
1 Agr-2338 Channing way Bkly 9116W
- Burke, Una Lucille Oakland
A.B. 1918
2 LS-26 Portsmouth rd, O Oakd 1789
- Burnett, Beatrice Beryl Oakland
A.B. 1919
1 LS-745 Alleen st, O Pied 5556J
- Burna, John Davidson Berkeley
B.S. (University of Arizona) 1917
2 LS-2710 Durant av Bkly 8025W
- Burrall, George Merriman Los Angeles
A.B. 1919
2 Med-1367 Third av, S F
- Cady, Vernon Mosher Berkeley
B.S. 1908; M.A. (Columbia University) 1917
2 LS-1524 Walnut st Bkly 4258J
- Cain, Andrew W. Philippine Islands
A.B. (University of Georgia) 1900; M.A.
University of Philippines) 1913
1 LS-140 Mason st, S F Dgls 2920
- Caldwell, Hurschel Lyle Green Ridge, Mo.
A.B. (William Jewell College) 1916
1 LS-2606 Dwight way Bkly 139
- Calkins, Helen Lawlor Los Angeles
A.B. (Occidental College) 1919
1 LS-2629 Haste st Bkly 3287
- Cameron, Marguerite Spencer Berkeley
A.B. (University of Utah) 1913
1 LS-2214 Dana st Bkly 1160
- Camp, Carter Carson Napa
A.B. 1916
2 Juris-Hampel and Randolph sts, O Mer 1832
- Campbell, Esther Mary Seattle, Wn.
B.S. (University of Washington) 1919
1 LS-2821 Bancroft way Bkly 1765
- Campbell, Gladys-Mary Elizabeth Oakland
A.B. 1918
2 LS-2530 Ridge rd Bkly 7084
- Campbell, Leo Joseph Berkeley
A.B. (Gonzaga University) 1919
1 LS-1604 Grove st Bkly 3208J
- Canavan, Mabel Claire Berkeley
A.B. 1919
1 LS-2700 Dana st Bkly 1690
- Carlson, Anna Frances Sacramento
A.B. 1919
1 LS-2328 Haste st Bkly 5047
- Carlson, Emil Joseph Fresno
A.B. 1919
1 LS-2529 Hilgard av Bkly 6100
- Carlton, Lena Redington Oakland
B.L. 1897
2 LS-468 Perkins st, O Oakd 2108
- Carlyon, Ethel Spencer San Jose
A.B. 1918
2 LS-2521 Piedmont av
- Carmichael, Ruth Margaret San Francisco
A.B. 1919
1 LS-2618 Haste st Bkly 6102W
- Carpenter, John E. Nelson Alameda
A.B. (Stanford University) 1908
1 LS-1815 Central av, A Ala 1089J
- Carrier, Emily Beatrice Santa Barbara
A.B. 1918
2 Med-100 Judah st, S F Snst 1272
- Carson, Alvin Howard Modesto
A.B. 1919
2 Juris-2207 Atherton st Bkly 4208W
- Carson, Armor Deamer San Francisco
B.L. 1907
2 LS-1121 Everett av, O
- Case, Irma E. San Diego
A.B. 1919
1 LS-2241 Durant av Bkly 1627
- Cater, George Henry Antioch
B.S. (Northwestern University) 1902
2 LS-Antioch
- Cauch, Frank Robert Oakland
B.S. (Columbia University) 1904
1 LS-2316 Valdez st, O Oakd 1597
- Cavagnaro, Priscilla Anastasia Oakland
A.B. 1917
2 LS-400 Lagunitas av, O Oakd 5879

- Cereghino, Isidoro Antonio Berkeley
A.B. 1919
2 Juris-2422 Russell st Bkly 5873W
- Chakurian, Susie Dickson Oakland
A.B. (Stanford University) 1898
1 LS-361 Thirty-fifth st, O
- Chamberlain, Richard Henry Oakland
A.B. 1915; cand. J.D.
13 Juris-2200 Piedmont av Bkly 7027
- †Chandler, Louis Charles Berkeley
B.S. (Lafayette College) 1908
2 LS-State Food and Drug Laboratory,
Campus
- Chang, Shau Min Hongkong, China
A.B. 1919
1 LS-2504 Regent st Bkly 3893J
- Chapman, Herbert Robbins Berkeley
Ph.B. (Oberlin College) 1892
1 LS-2415 Dwight way Bkly 6458W
- Chapman, Wendell Sherman Berkeley
A.B. (Washington State College) 1918
2 Juris-2207 Atherton st
- Chase, Caroline Esther Berkeley
A.B. 1919
1 LS-1619 Josephine st Bkly 5459J
- Chen, Chan Chansha, China
LL.B. (Pekin Government University)
1918; M.A. 1919
2 LS-2107 Durant av
- Chen, Tsing Hua Shanghai, China
B.S. 1919
1 Com-2600 Hilgard av Bkly 5747
- Chiang, Lu Cheng Foo-Chow, China
E.M. (Colorado School of Mines) 1918
12 Min-2206 Atherton st Bkly 4208J
- Chrisman, Ruth Adelaide Redondo Beach
A.B. 1919
1 LS-2421 LeConte av Bkly 3062
- Christiansen, Ruth Schaeffer Berkeley
A.B. 1915
1 LS-1646 Walnut st Bkly 2944W
- Clark, Gertrude Agnes Bakersfield
A.B. 1918
1 LS-2511 Channing way Bkly 3121J
- Clark, Mary Gale Piedmont
A.B. 1919
1 LS-2632 Haste st Bkly 1033W
- Clark, Morris Richard Berkeley
A.B. 1919
1 Juris-2833 Bancroft way Bkly 8118
- Clark, Pauline Santa Rosa
A.B. 1919
1 LS-2512 Benvenue av Bkly 8660
- Clausen, Curtis Paul Ontario
B.S. 1914; James Rosenberg Memorial
Scholar
1 Agr-1224 Oxford st
- Clauson, Jennie Eleanor Kingsburg
A.B. 1919
1 LS-2507 Channing way Bkly 3359W
- Clawson, Claude Leigh Heney Co., Indiana
A.B. 1910 and M.A. 1911 (Indiana
University)
1 LS-220 John st, O Pied 7539J
- Cleary, Leslie Alan Lindsay
A.B. 1918
1 Juris-2417 Edwards st
- †Clifford, Ruth Alice Lindsay
A.B. 1917
12 LS-1615 Scenic av
- Coan, Charles Florus Berkeley
A.B. (University of Washington) 1908;
M.L. 1914; cand. Ph.D. (history)
3 LS-1813 Bonita av Bkly 2929J
- Cochran, Mable Ena Kansas City, Mo.
A.B. (Ohio Wesleyan University) 1914
1 LS-2621 Fulton st
- Cochrane, Ava L. Madison, Wis.
A.B. (University of Wisconsin) 1909
1 LS-2430 Channing way Bkly 8280J
- Coffman, Wilmer Evans Berkeley
A.B. (Wesleyan University) 1895; B.D.
(Drew Theological Seminary) 1898
16 LS-1671 Marin av Bkly 3075J
- Cohen, Emelita Oakland
A.B. 1919
1 LS-1440 Twenty-ninth av, O
Frvl 1967W
- Colberg, Ernest J. Berkeley
A.B. (Gustavus Adolphus College) 1906;
M.A. 1908 and Ph.D. 1909 (Univer-
sity of Minnesota)
1 LS-2001 Allston way Bkly 6710
- Colby, Rachel Vrooman Oakland
B.L. 1895; LL.B. 1898
4 Mec-2901 Channing way Bkly 1773
- Collett, Maude Leona Bishop
A.B. 1919
1 LS-2721 Channing way Bkly 808
- Collins, George Lukens Riverside
A.B. 1915
3 LS-1037 Channing way
- Converse, Edna Juliette Portland, Ore.
A.B. (University of Michigan) 1906
1 LS-1744 Franklin st, O Oakd 6156
- Cook, Alice Elizabeth Boston, Mass.
A.B. (Mt. Holyoke College) 1904
1 LS-1629 Arch st Bkly 944W
- †Cook, John W. Kingsburg
B.S. (Occidental College) 1916
12 LS-Kingsburg
- Cooley, John Louis Cloverdale
A.B. 1918
3 Mec-2607 Hearst av Bkly 5913
- Corcoran, Eleanor Nydia Escanaba, Mich.
A.B. 1919
1 LS-Euclid apts Bkly 7492W
- Corcoran, Thomas Francis Spokane, Wn.
B.S. 1919
1 Chem-2600 Bancroft way Bkly 1901

- Cornelius, Brother Fidelis Oakland
A.B. 1918
2 LS-St. Mary's College, O Lksd 204
Corrick, Mildred Givin Fresno
A.B. 1919
21 LS-2641½ Channing way Bkly 2276J
Corry, Mary Gladys Petaluma
A.B. 1919
1 LS-2730 Haste st Bkly 3769J
Cortes, Nicanor Manila, P. I.
A.B. 1914, B.S. 1916, and M.S. 1917
(University of Philippines)
21 CE-2039 Shattuck av Bkly 4929
Cory, Virginia Elizabeth Sacramento
A.B. 1918
1 LS-2411 Haste st Bkly 6449J
Coulter, John Wesley Berkeley
A.B. 1919
21 LS-2701 Hearst av Bkly 2421
Cowan, Florence Julia Santa Monica
Ph.B. (University of Chicago) 1909
11 LS-2337 Haste st Bkly 1605
Cozens, Frederick Warren Portland, Oregon
A.B. 1915; M.A. 1918
12 LS-2523 Virginia st Bkly 3531J
Crane, Clarence Burnham Woodland
A.B. 1903
3 LS-51 Parkside dr Bkly 2129W
Crane, Mildred P. Sacramento
A.B. 1917; M.A. 1918
2 LS-2695 Cedar st Bkly 538W
Crane, William Carey, Jr. Washington, D.C.
Graduate (United States Military Acad-
emy) 1918
1 LS-Cloyne Court Bkly 2468
Cranford, Irving Smith New York, N. Y.
A.B. (University of Missouri) 1916
2 LS-2248 Telegraph av Bkly 9011
Crawford, Grace Loretta Whittier
A.B. (Whittier College) 1919
1 LS-2217 Atherton st Bkly 7251J
Cree, William Harold Claremont
A.B. (Pomona College) 1917
1 Juris-2237 Durant av
Crise, Margaret Simmone Terre Haute, Ind.
A.B. (Northwestern University) 1914
21 LS-1450 Alice st, O Lksd 4956
Crockett, Grace Lillian Boston, Mass.
A.B. (Radcliffe College) 1895; M.A. 1918
5 LS-2522 Dwight way Bkly 6646J
Crook, Theo H. Beaumont, Texas
A.B. 1919
21 LS-2717 Hearst av Bkly 5770
Cryder, Anna Mary Tyrone, Pa.
A.B. 1919
21 LS-1921 Haste st
Crutchett, Leonora Wilhelmina San Francisco
A.B. 1919
1 LS-142 Dolores st, S F
- Culter, Leila Evelyn Orange
A.B. (Occidental College) 1919
21 LS-2428 Channing way Bkly 6408
Culter, Mabel Mildred Orange
A.B. (Occidental College) 1917
21 LS-2428 Channing way Bkly 6408
Cumings, Sophie Louise Redlands
B.S. (University of Redlands) 1914;
M.A. 1917
4 LS-2322 Stuart st Bkly 6319W
Cummings, Edith Eleanor Mt. Hamilton
A.B. 1916 and M.A. 1917 (University of
Missouri); Lick Observatory Fellow;
cand. Ph.D. (astronomy)
2 LS-2430 Bancroft way Bkly 4811
Cummings, N. W. La Jolla
A.B. (University of Utah) 1913
22 LS-La Jolla
Cunco, Josephine G. San Francisco
A.B. 1918
11 LS-721 Bush st, S F Dgls 2991
Curry, Charlotte Mary Los Angeles
A.B. (Emporia College) 1913
1 LS-2420 Ellsworth st Bkly 6902J
Cuthbert, Fern Ethel Oakland
A.B. 1919
1 LS-1019 Sixty-first st, O Pied 1412J
Cutter, Lelia Evelyn Orange
A.B. (Occidental College) 1919
21 LS-2442 Piedmont av
Daggett, Myra Anna Berkeley
A.B. 1919
1 LS-1836 Cedar st Bkly 6698W
Dahlquist, Thomas Wilford Salt Lake City, Utah
A.B. 1917; Williard Dawson Thompson
Memorial Scholar in Jurisprudence
1 Juris-2301 Durant av Bkly 37
Dalager, Rudolph Levin Berkeley
A.B. 1919
21 LS-2223 Atherton st Bkly 6680
Daly, Anne Varian Oakland
A.B. 1919
1 LS-2208 Stewart st Bkly 4982W
d'Ancona, Sara Russell San Francisco
A.B. 1919
1 LS-2150 Divisadero st, S F West 325
Dangberg, Grace Melissa Minden, Nevada
A.B. 1918; University Fellow in Anthro-
pology
1 LS-2958 Russell st Bkly 1408
Dangerfield, Albert Neil Riverside
A.B. (Cornell University) 1917; cand.
Ph.D. (palaeontology)
1 LS-2237 Durant av
Danner, Philip Sheridan Pasadena
A.B. (Pomona College) 1918
1 Chem-2618 College av

Dart, Arthur Edward	San Francisco	Delamere, Catherine	Berkeley
A.B. 1919		A.B. 1919	
²¹ 1 LS and 2 Med-1410 Eighth av, S F		1 LS-2612 Piedmont av	Bkly 6042
Daugherty, Corena Emogene	Salinas	Delprat, Guillaume Daniel	Melbourne, Australia
A.B. 1919		A.B. 1918	
²¹ 1 LS-2793 Benvenue av	Bkly 5274W	²¹ 1 Med-1281 Second av, S F	
Daus, Daphne Harriet	Atascadero	De Luce, Dona Dea	Dome, Ariz.
A.B. (University of New Mexico) 1917		B.S. 1918	
1 LS-1516 Scenic av	Bkly 7049W	²¹ 1 LS-Oxford apts	Bkly 2957J
Daus, Paul Harold	Atascadero	Dennes, William Ray	Healdsburg
B.S. (University of Chicago) 1916		A.B. 1919	
1 LS-1516 Scenic av	Bkly 7049W	1 LS-2431 College av	Bkly 1415J
Davis, Alice	Los Angeles	Devaul, Adelbert	Paisley, Ore.
A.B. (Pomona College) 1909		A.B. 1919	
²¹ 1 LS-2442 Piedmont av	Bkly 4590W	²¹ 1 LS-2428 Bancroft way	Bkly 8034
Davis, Bert Byron	Berkeley	Devendorf, Ervin Luther	Berkeley
A.B. 1919		B.S. (Cornell College) 1907	
²¹ 1 LS-334 Chicago av, O	Mer 2430	²² 1 LS-2151 Stuart st	Bkly 2846W
Davis, Daryl Dean	Berkeley	Devenish, Olive	Calgary, Canada
B.S. 1919; John W. Mackay Jr. Fellow		A.B. 1919	
1 Mec-1827 Ward st	Bkly 5736W	²¹ 1 LS-2214 Dans st	Bkly 1160
Davis, Elizabeth Adelaide	San Francisco	Dexter, Eleanor May	Lodi
B.S. 1911		A.B. 1919	
2 Med-100 Judah st, S F	Snat 1272	1 LS-2749 Dwight way	Bkly 6444
Davis, Helen Virginia	Berkeley	Dexter, Paul D.	Hanford
A.B. 1918; cand. J.D.		A.B. 1919	
8 Juris-2425 College av	Bkly 1165	²¹ 1 Juris-2428 Dwight way	Bkly 4244W
Davis, Homer Woodhull	San Francisco	Dietrich, Henry	Ithaca, N. Y.
A.B. (Hamilton College) 1916		B.S. (Cornell University) 1917	
1 LS-1350 Washington st, S F		1 Agr-19 Panoramic way	Bkly 6509W
	Pspst 5440	Dobbins, Ruth Roberta	Colusa
Davis, Susan Kirk	Berkeley	A.B. 1919	
B.S. 1914		1 LS-2519 Hillegass av	Bkly 477
²³ Agr-2627 Hearst av	Bkly 1207	Doeg, Martha Clara	Tacoma, Wn.
Davison, Berlinda	San Francisco	A.B. (Union College) 1918	
A.B. 1919		²¹ 1 LS-2010 Virginia st	Bkly 8817W
1 LS-1942 Bush st, S F	Flmr 2318	Dong, Harry Earl	Sacramento
Davison, Stuart Toussaint	San Francisco	A.B. 1919	
A.B. 1918		2 Juris-2504 Regent st	Bkly 3893J
2 Med-1942 Bush st, S F	Flmr 2318	Donnelly, Laura Lorine	San Francisco
Dawson, Lydia Emma	Linwood, Nebraska	B.S. 1900	
A.B. (University of Nebraska) 1918		²³ 1 LS-1530 Hawthorne ter	Bkly 5009W
1 Com-Hotel Whitecotton	Bkly 7300	Dowdell, Joseph Aloysius	Mill Valley
Day, Caroline	Berkeley	B.S. 1919	
A.B. 1904		1 Agr-1641 Oxford at	Bkly 6641J
8 LS-2747 Bancroft way	Bkly 1227	Downey, Marion Clarice	Modesto
Day, George Martin	Berkeley	A.B. 1917	
A.B. 1905 and M.A. 1908 (Hamilton College)		²¹ 1 LS-2538 Channing way	Bkly 5972
²¹ 1 LS-2216 Blake st	Bkly 4203	Doyle, Helen M.	Santa Ana
Day, Ruth Baker	Greencastle, Ind.	A.B. 1919	
Ph.B. (De Pauw University) 1904; M.A. (Northwestern University) 1910		²¹ 1 LS-2335 Warring st	Bkly 6744
²¹ 1 LS-2216 Blake st	Bkly 4203	Doxier, Charles Thomason	Berkeley
Deacon, Dorothy	Pasadena	B.S. 1902; M.A. 1919	
A.B. 1919		5 LS-2638 Fulton st	
1 LS-2531 Channing way	Bkly 7069W	Duncan, James Prentiss	Princeton, Indiana
de Graff, Margaret Navarre	Berkeley	A.B. 1913	
A.B. 1919		²² 1 LS-2420 Durant av	Bkly 8757J
²¹ 1 LS-Hotel Crail	Bkly 9310	Dutton, Loraine Orr	Berkeley
		A.B. (Texas Christian University) 1918	
		²¹ 1 LS-2248 Telegraph av	Bkly 9011

Dyar, Dorothy	Washington, D. C.	Engelhardt, Barbara Adele	Oakland
A.B. 1919		B.S. 1915	
²¹ 1 LS-2711 Regent st	Bkly 8478W	¹¹ Agr-429 Staten av, O	Oakd 5668
Dyer, Jeannette Ralph	Saratoga	Erickson, Adeline Lillian	Berkeley
A.B. (Western Reserve University) 1915		A.B. 1919	
5 Arch-2318 Telegraph av	Bkly 5964	²¹ 1 LS-2633 Woolsey st	Bkly 1780J
Eadie, Benita Gertrude	San Diego	Erlwin, Edmund Alarich	Gardena
A.B. 1919		B.S. 1918	
²¹ 1 LS-2305 Bancroft way	Bkly 7461	¹² Chem-1815 Highland pl	Bkly 1682
Eager, Maybell Stone	Fairfield	Esquinel, Prudencio Frias	
A.B. 1919		Joen, Nueva Ecija, P. I.	
²¹ 1 LS-2533 Durant av	Bkly 665	B.S. (University of the Philippines) 1919	
Eakin, Margaret Adelaide	San Francisco	1 CE-2001 Allston way	Bkly 6710
A.B. 1919		Essig, Frederick Monroe	Shively
1 LS-3958 Sacramento st, S F	Pac 2372	A.B. 1917; cand. Ph.D. (botany)	
East, Ethel Marie	Alton	3 LS-1942 Hearst av	
A.B. 1918		Ewing, William Ferdinand	Oakland
¹² 1 LS-1524 Arch st	Bkly 1421	A.B. (Stanford University) 1906; M.A.	
Eby, Elmo Cartwright	Sacramento	1919	
A.B. 1919		3 LS-5145 Coronado av, O	Pied 7778W
²¹ 1 LS-2214 Dana st	Bkly 1160	Fairfield, Priscilla	Mt. Hamilton
Eby, Harvey Leatherman	Laramie, Wyo.	A.B. (Boston University) 1917; Lick	
A.B. (Yale University) 1910		Observatory Fellow; cand. Ph.D. (astronomy)	
1 LS-1726 Walnut st	Bkly 5488	2 LS-2430 Bancroft way	Bkly 4811
Edgar, Cecil Eli	Sanger	Farrington, Efner Dwight	El Monte
A.B. 1917		A.B. 1919	
2 Juris-2411 Durant av	Bkly 8071	²¹ 1 LS and 2 Med-Relief Home, S F	
Edlund, Karl Richard	Fresno	Snat 1580	
A.B. 1919		Fay, Eleanor	Santa Ana
1 Chem-2642 Bancroft way	Bkly 658	A.B. (Doane College) 1902	
Edwards, John Robert	Los Angeles	²¹ 1 LS-606 Walnut st	Bkly 1642
A.B. 1919		Faye, Paul Louis	Santa Fe, N. M.
1 LS-328 Hillside av, P	Pied 6397	Bes L. 1903 and LL.B. 1907 (Aix)	
Ehlers, Anna Eliza	Whittier	4 LS-2535c Hilllegass av	
A.B. 1917; M.A. 1918		Fee, Chester Anders	Berkeley
8 LS-2618 Durant av	Bkly 3699	A.B. (University of Oregon) 1916	
Ellicott, Lettice Eleanor		¹¹ 1 Juris-2632 Benvenue av	Bkly 4895W
Neston, Cheshire, England		Fender, Charles William	Charleston, Ill.
The degree certificate, Girton College,		A.B. (University of Illinois) 1911; M.S.	
Cambridge, England, June, 1914		1913	
1 Agr-2515 Ellsworth st	Bkly 8180J	3 LS-1918 Haste st	Bkly 8130W
Elliott, Anna Lucile	Pomona	†Ferguson, Elizabeth Van Everen	Berkeley
A.B. (Pomona College) 1914		A.B. 1917; M.A. 1919	
2 LS-2620 Dana st	Bkly 3689W	3 LS-1 Mosswood rd	Bkly 4376
Ellis, Grace	Santa Monica	Fibush, Martha	Piedmont
A.B. 1919		A.B. 1918	
²¹ 1 LS-2409 College av	Bkly 8476W	1 LS-116 Pala av, P	Pied 989
Ellis, Marguerite Wynlee	Oakland	†Field, Anna	Oakland
A.B. 1919		A.B. 1916	
1 LS-1014 Myrtle st, O	Oakd 7080	²² 1 LS-Corcoran, California	
Ellis, Maude	Santa Monica	Fife, William	San Francisco
A.B. 1919		A.B. (University of Nevada) 1917	
1 LS-1755 Tacoma av		2 Min-2001 Allston way	Bkly 6710
Ellison, Joseph	Oakland	Finlay, Gerald Fonstin	Sydney, Australia
A.B. 1917; M.A. 1919		B.S. (University of Sydney)	
8 LS-8044 Grove st, O		²¹ 1 LS-2248 Telegraph av	Bkly 9011
Ellsworth, Edward Bryant	Niles		
A.B. 1919			
2 Juris-1521 Walnut st	Bkly 9358W		

† In absence first half-year; in residence second half-year.

- Firebaugh, Frederick Ludwig Austin, Texas
B.S. 1918
2 Min-106 Plaza dr Bkly 2339
- Fiselbrand, Isabelle Martina Berkeley
A.B. 1918
12 LS-2211 Ellsworth st Bkly 5496W
- Fish, Anita Marie Alameda
A.B. 1919
11 LS-1340 Versailles av, A Ala 842J
- Fish, Ruth Ella Buckeye
A.B. 1918
2 LS-8030 California st, S F West 7069
- Flanders, Jesse Knowlton Oakland
A.B. (Bates College) 1904; M.A. (Stanford University) 1917; cand. Gr.Educ.
2 LS-4149 Howe st, O Pied 5702W
- Flint, Dorothy Hollister
A.B. (Mills College) 1919
1 LS-2624 Virginia st Bkly 8663
- Flintermann, Emilie A. Detroit, Mich.
Ph.B. (University of Michigan) 1898
1 LS-Berkeley Inn Bkly 7360
- Flower, Herbert Patterson Berkeley
A.B. (Whitman College) 1914
2 LS-1720 Delaware st Bkly 6955
- Flynn, Dorothy Berkeley
A.B. 1919
2 LS-1550 Oxford st Bkly 2955
- Forester, Frank Williamson Pomona
A.B. 1919
2 Juris-2248 Telegraph av Bkly 9011
- Fondick, Archibald Morris San Diego
A.B. (Stanford University) 1902; LL.B.
1906 and M.A. 1907 (University of Southern California)
1 LS-2005 Bancroft way Bkly 6857
- Foster, Jonathan Douglass Auburn
B.S. 1913
12 LS-1551 Marin av Bkly 8430J
- Foster, Laurence Fleming Berkeley
A.B. (Albion College) 1910; M.S. (University of Illinois) 1914; cand. Ph.D. (bacteriology)
2 LS-2612 Fulton st Bkly 3843J
- Fowler, Matilda Newsom Oakland
B.S. 1913
12 LS-3114 Eaton av Pied 1572W
- Fox, Dilla Hazel Alhambra
A.B. 1919
11 LS-588 Excelsior st, O Oakd 4774
- Franklin, Harvey B. Chicago, Ill.
Ph.B. (University of Chicago) 1911;
Rabbi (Hebrew Union College) 1916
2 LS-Caldwell court apts, O Oakd 1889
- Franklin, Ruth San Francisco
A.B. 1918
12 LS-2775 Lombard st, S F Fimr 4668
- Fredericksen, Gerda Los Angeles
A.B. 1918
2 LS-2527 Virginia st Bkly 2080J
- Freeland, Lucy Shepard East Orange, N. J.
A.B. (Vassar College) 1912
2 LS-2809 Buena Vista way Bkly 8973W
- Freeman, Elmer Stone San Francisco
A.B. (College of the Pacific) 1919
11 LS-1051 Taylor st, S F Pspt 6259
- French, Louise Huron, South Dakota
Ph.B. (Wooster University) 1899; A.B. (University of Michigan) 1903
1 LS-1814 Oxford st Bkly 7920J
- Friedman, Monroe Mark Oakland
A.B. 1916; cand. J.D.
3 Juris-2528 Ridge rd Bkly 8496J
- Frisbie, Edith San Francisco
B.L. 1914
5 LS-1580 LeRoy av Bkly 7967J
- †Frohman, Raymond Wallace Portland, Oregon
A.B. (Yale University) 1912
12 LS-2214 Dana st Bkly 1160
- Fu, Cheng Lia Kiang-Ya, China
LL.B. (Pekin Government University) 1918
1 LS-2206 Atherton st
- Furlong, Cora Dean Berkeley
A.B. (University of North Dakota) 1910
12 LS-2261 Shattuck av Bkly 8534
- Fussell, Paul Longstreth Pasadena
A.B. 1916; cand. J.D.
13 Juris-2001 Allston way Bkly 6710
- Gadgil, Vaman Ramachandra Poona, India
B.Agr. (University of Bombay) 1913
1 Agr-1819 Dwight way Bkly 6989J
- Gall, Ellen Margaret Berkeley
A.B. 1919
11 LS-2809 Fulton st Bkly 8269
- Gallimore, Marynel Fullerton
A.B. 1919
1 LS-2749 Dwight way Bkly 6444
- Gamble, Helena Stockton
A.B. 1919
1 LS-5554 Lawton av, O Pied 6492W
- Gantz, William Lawrence Pomona
A.B. (Pomona College) 1918
1 LS-2208 Ellsworth av Bkly 7912J
- Garland, Mirian Marcella Bakersfield
A.B. 1918; M.A. 1919; cand. Ph.D. (English)
2 LS-2515 Russell st Bkly 3842J

- Gay, Jeanette Natalie Berkeley
A.B. (Mills College) 1918
2 LS-2828 College av Bkly 8896J
- Gay, Martha Belle Oakland
A.B. (University of Southern California) 1908
*2 LS-1923 Webster st, O Lkad 4866
- Gay, Thomas Edwards Sacramento
A.B. 1916
*2 Juris-1709 La Loma av Bkly 3616J
- Geiser, Helen Sacramento
A.B. 1919; Young Women's Christian Association Fellow
1 LS-2743 Regent st Bkly 4843J
- George, Otto Oakland
A.B. 1918
2 LS-3477 Laguna av, O
- Gerke, Roscoe Harlan Berkeley
B.S. (University of Illinois) 1918; University Fellow in Chemistry
1 Chem-2384 Durant av Bkly 3485
- Gibbs, Philura McGovern Berkeley
A.B. 1919
1 LS-2337 Channing way Bkly 8278W
- Gidoll, Sidney Henry San Francisco
A.B. 1919
*1 LS and *2 Med-1264 Sixth av, S F Snat 892
Berkeley
- Gier, Philip Elmore
A.B. (Drake University) 1916
*1 Com-2613 Virginia st Bkly 291
- Gifford, Flora Sawyer Los Angeles
A.B. (Bryn Mawr College) 1903; M.A. (Radcliffe College) 1910
*1 LS-1981 Grant st
- Gilkey, Errol O. Oakland
A.B. (Willamette University) 1914; P.d.M (New York University) 1917
1 Juris-6449 Colby st, O Pied 8309J
- Glessner, Harry Harbaugh Berkeley
B.L. 1902
2 LS-2687 1/2 Piedmont av Bkly 4700J
- Glines, Vera Lucile Los Alamos
A.B. 1919
1 LS-2526 Hilgard av Bkly 1441
- Goff, Jean Constance Pasadena
A.B. 1918
1 LS-6605 Telegraph av, O Pied 2170J
- Goldberger, Valeria Berkeley
A.B. (Northwestern University) 1917
*1 LS-2019 Channing way
- Goodrich, Washington Stirling Los Angeles
B.L. 1911
4 LS-4151 Thirty-fifth av, O Frvl 1143W
- Gordon, Allene Lenore Richmond
A.B. 1918
1 LS-1920 Grove st Bkly 2076J
- Gordon, Walter Arthur Riverside
A.B. 1918
2 Juris-2001 Allston way Bkly 6710
- Graf, Bertha E. Los Angeles
A.B. 1919
1 LS-2749 Dwight way Bkly 6444
- Graham, Malbone Watson, Sr. Berkeley
A.B. (Princeton University) 1899; D.D. (Lenox College) 1906
1 LS-1639 Oxford st Bkly 2594
- Graham, Malbone Watson, Jr. Berkeley
A.B. 1918
1 LS-1639 Oxford st Bkly 2594
- Gravem, Axel Berg San Francisco
A.B. 1917
*1 Juris-1828 Delaware st Bkly 9030W
- Gray, Arthur Amos Berkeley
A.B. (Ohio Northern University) 1908; M.A. 1915; cand. Gr.Educ.
8 LS-2412 Milvia st Bkly 9003W
- Gray, Robert Floyd Alameda
A.B. 1917
*1 LS-1848 Central av, A Ala 1129J
- Griffith, Edith Sydney Penryn
A.B. 1919
*1 LS-2525 Durant st Bkly 2060
- Grimes, Barbara Nachtrieb San Francisco
A.B. 1912; J.D. 1915; cand. Ph.D. (economics)
*3 LS-2563A Buena Vista way
- Groff, Lolita Mitchell Oakland
A.B. 1919
1 LS-19 Napier av, O Pied 8745J
- Gurevich, David S. Palo Alto
B.S. 1917 and M.A. 1918 (University of Washington)
1 Com-2201 Ellsworth st Bkly 6037W
- Hagar, Gerald Hanna Berkeley
A.B. (University of Michigan) 1914
*2 Juris-2631 College av Bkly 467W
- Hagedoorn, Anna Cornelia Zierikzee, Holland
Graduate (Leiden, Holland) 1908
*1 LS-Canyon Farm Local 141
- Hager, Robert Morrison Claremont
A.B. (Pomona College) 1918
1 LS-2224 Dana st Bkly 4216J
- Haheey, William Martin Tulare
A.B. 1919
*1 LS-2327 Bancroft way Bkly 1061W
- Hahn, Esther Dahl Oakland
A.B. 1918
2 LS-940 Eighth st, O Lkad 1358
- Haight, Frank Kelsey Fortuna
A.B. 1918
1 Med-2603 Milvia st Bkly 7480J
- Hall, Geraldine M. Petaluma
A.B. 1919
*1 LS-2714 Ridge rd Bkly 9093
- Hall, Herbert Edwin Piedmont
A.B. 1916; cand. J.D.
8 Juris-67 King av, P Pied 2299

Hall, Thayer Denton A.B. 1917 2 Juris-2119 Nineteenth av, O	Oakland	Hardy, Ruth Alden A.B. 1919 1 LS-2031 Carlton st	San Francisco
Halliday, Helen Gertrude A.B. 1919 1 LS-2736 Haste st	Point Arena Bkly 8680	Hargrave, Anna Gray Ph.B. (Brown University) 1899; M.A. (Columbia University) 1902 1 LS-61 Echo av, O	Providence, R. I.
Hambly, Helen Josephine A.B. 1919 1 LS-2620 Benvenue av	Berkeley Bkly 7380W	Harris, Louis Hayman A.B. (Harvard University) 1914 12 LS-2318 1/2 Bancroft way	San Francisco
Hamilton, Leland Stanford A.B. 1915 and M.A. 1915 (Indiana University)	Berkeley	Harris, Motier B.S. (Agricultural and Mechanical College of Oklahoma) 1917 1 LS-2704 Virginia st	San Francisco Bkly 4695W
1 Juris-2636 Warring at Hamilton, Lloyd Nelson A.B. 1916; cand. J.D.	Bkly 2997W Oakland	Harrison, Edith Adelaide A.B. 1918 2 LS-1814 Woolsey st	Bkly 4695W
3 Juris-3825 Howe st, O Hamilton, William Ferguson A.B. (Pomona College) 1917; cand. Ph.D. (zoology)	Pied 4392W Claremont	Harrison, Margaret Hayne A.B. 1908; M.A. 1909 1 Juris-28 Plaza dr	Berkeley Bkly 4095W
2 LS-2207 Atherton st Hammel, Julius O. A.B. (Stanford University) 1894	Bkly 4208W Oakland	Harshbarger, Aza Foster A.B. 1918 2 Juris-269 Mather st, O	Bkly 4095W Pied 2491J
1 LS-842 E Nineteenth st, O Hampel, Cora Elizabeth A.B. 1904 1 LS-523 Twenty-fifth st, O	Mer 876 Oakland	Hart, William G. B.S. (Washington State College) 1918 1 LS-2223 Union st	Tulare
Hampton, William Henry B.S. 1917 2 Chem-2011 Hearst av	Oakd 9119 Live Oak Bkly 8197W	Hartzell, Robert Reiff A.B. (Franklin and Marshall College) 1912; M.A. (Northwestern University) 1918 1 LS-2240 Telegraph av	Perkasie, Pa.
Hanlin, Christian Hoover A.B. (Princeton University) 1901; M.A. (Grove City University) 1903; LL.B. (Valparaiso University) 1912; Lic. en Derecho (La Jurisprudencia) 1918.	Blythe	Harvey, Christine Montgomery A.B. (College of the Pacific) 1920 1 LS-2516 Virginia st	San Jose Bkly 5452W
13 Juris-1633 Josephine st Hannon, Helen A.B. (Randolph-Macon Womens' College) 1916	Bkly 8074 Lynchburg, Va.	Hatch, Ethel Sumner A.B. (University of Wisconsin) 1917 1 LS-2309 Fulton st	Seattle, Washington
1 LS-2643 1/2 Channing way Hansen, Anna Louise B.L. 1910 1 LS-2542 Durant av	Bkly 7877J Oceanside	Haub, Hattie Dora Frances A.B. (Stanford University) 1903; B.S. (Massachusetts Institute of Technology) 1912	Bkly 8954W Oakland
Hansen, Chester O. A.B. 1918; cand. J.D. 3 Juris-2538 Durant av	Selma Bkly 8361W	1 LS-Claremont Hotel Hauch, Wendell M. A.B. 1919 1 LS-2071 San Antonio av, A	Bkly 9300 Alameda
Hanson, George Emmanuel A.B. 1919 1 LS-1930 Parker st	Reedley	Hawk, Tura Alice B.S. (Iowa State College) 1916 12 LS-2223 1/2 Chapel st	Ala 218 Berkeley
Hanson, Kenneth Ian B.S. 1918 1 Agr-2607 Hearst av	Upland Bkly 5913	Hawkins, Eugene Alston, Jr. A.B. 1916 13 Juris-2500 Durant av	Bkly 5763 Los Angeles
Hanson, Samuel A.B. 1919 1 LS and 2 Med-1704 O'Farrell st, S F	San Francisco	Hawkins, Eugenie Phyllis A.B. 1919 1 LS-11 Monte av, P	Piedmont Pied 5650W
Harding, Cora B. A.B. 1919 2 Juris-2502 Hilgard av	Santa Barbara Bkly 7203J	Hawkins, Kenneth Clarence A.B. 1919 1 Chem-Chemistry Building	Exeter Bkly 7100
Hardison, Aura Delphina A.B. 1919 1 LS-2500 Durant av	Berkeley Bkly 1831W	Haydon, Glen A.B. 1918 1 LS-2321 LeConte av	Hobart, Okla.

Hayes, Wilda E. A.B. 1919 1 LS-2457 Webster st Hollywood Bkly 3807W	Hillerman, Pauline Marion A.B. 1919 21 LS-472 Jean st, O San Diego Oakd 4433
Healy, Dorothy Laurence A.B. 1918 1 LS-2249 Fulton st Willits Bkly 3583	Illis, Lewis Bradley A.B. 1899; M.A. 1902; D.D. 1911 (Em- poria College); B.D. (New York Uni- versity) 1911 4 LS-2700 Bancroft way Oakland Bkly 8570
Heaps, Pearl A.B. (Goucher College) 1910 1 LS-642 Jones st, S F Baltimore, Maryland Frkn 5940	Hillyard, Grace Tanquary A.B. (Colorado Teachers' College) 1917 2 LS-2730 Virginia st Berkeley Bkly 1025J
Hedrick, Ellen A.B. (Smith College) 1892 2 Juris-Cloyne Court Berkeley Bkly 4710	Hobart, Kenneth Gray A.B. 1916 1 LS-2606 Dwight way Sacramento Bkly 139
Heffner, Roy Jackson B.S. 1916 1 Mec-1701 Euclid av Los Angeles Bkly 6648W	Hodgson, Pauline A.B. 1919 21 LS-2385 Warring st San Francisco Bkly 6744
Heger, Mary Lea A.B. 1919; cand. Ph.D. (astrophysics) 21 LS-Lick Observatory, Mt. Hamilton Tiburon Sonoma Stage	Hoffman, Walter A.B. 1919 21 Juris-2401 Durant av Bkly 6504
Heggie, Gabrielle M. A.B. 1919 21 LS-2530 Ridge rd Palo Alto	Hogness, Thorán Rusten Minneapolis, Minn. B.S. 1918 and Chem. Eng. 1919 (Univer- sity of Minnesota) 1 Chem-2435 Haste st San Francisco Bkly 1980
Heller, Hilda Hempl A.B. (Stanford University) 1913; M.S. (University of Michigan) 1915; cand. Ph.D. (research medicine) 3 LS-1208 First av, S F Snst 1323	Holder, Grace Alice A.B. 1919 1 LS-847 Warwick av, O Oakd 5741
Helt, Phila May A.B. (Wellesley College) 1913 1 LS-2417 Bancroft way Berkeley Bkly 1445	Holmes, Adah Roberta A.B. 1916; M.A. 1917 2 LS-209 Castro st, S F San Francisco Mrkt 2224
Henrich, Antonia Zella B.L. 1913 2 LS-2218 Union st Berkeley Bkly 474J	Holmes, Aubrey Foster A.B. 1919 21 Med-1501 Twenty-third av, O Oakland Frwl 32
Henrich, Louis Joseph B.S. (University of Kentucky) 1913; M.S. (Iowa State College) 1915 1 LS-3827 Eighteenth st, S F San Francisco Mrkt 1130	Hook, Mildred Adele A.B. 1919 1 LS-1345 Arch st Concord Bkly 5261W
Henrici, Myrtle Ramon A.B. 1918 21 LS-2124 Eagle av, A Alameda Ala 1097	Horn, Winifred Ray A.B. 1919 1 LS-2520 Virginia st Pasadena Bkly 7247
Herdeg, Harold Lush B.S. 1917 1 Agr-University Farm, Davis Riverside	Horner, Rebecca McCrady A.B. 1919 21 LS-2320 LeConte av Berkeley Bkly 1407J
Herrman, John Raymond Newport, Kentucky B.S. (Ohio State University) 1919 1 Agr-2307 Hearst av Newport, Kentucky Bkly 6815	Horsfall, Lloyd Patzlaff Prairie du Chien, Wisconsin Graduate (United States Military Acad- emy, West Point, N. Y.) 1906 1 LS-2641 College av San Francisco Bkly 7317J
Herrington, George A.B. 1919; cand. J.D. 3 Juris-2214 Union st San Francisco	Hosang, Bertha A.B. (McGill University) 1917 21 LS-3050 Hillegas av Berkeley Bkly 1677W
Higbee, Lloita A.B. (Pomona College) 1919 1 LS-2632 Channing way Claremont Bkly 5025J	Hosford, George Newton A.B. 1918 2 Med-2538 Durant av Petaluma Bkly 8361W
Hill, Alexander Blake A.B. 1919 21 Juris-Euclid apts Oakland	Hoskins, William Muriece A.B. 1919 1 Chem-2415 Haste st Woodland Bkly 244W
Hill, Margaret Frances B.L. 1901 2 LS-2673 Orange av, O Oakland Frwl 176	

- Howd, Cloice Ray Berkeley
A.B. (McMinville College) 1912; M.A.
1918; cand. Ph.D. (philosophy)
4 LS-2604 Dwight way Bkly 139
- Howe, Henry Van Wagenen Eugene, Oregon
A.B. (University of Oregon) 1916; Uni-
versity Fellow in Palaeontology; cand.
Ph.D. (palaeontology)
1 LS-2237 Durant av
- Hoyt, Elisabeth Oakland
A.B. 1916
*1 LS-407 Fairmont av, O Oakd 2840
- Hoyt, Josephine Berkeley
A.B. 1918
2 LS-2956 Piedmont av Bkly 6312W
- Hoyt, Werner Fletcher Oakland
A.B. 1919
2 Med-854 Cole st, S F Park 6864
- Hsun, Ching Lee Schenectady, N. Y.
A.B. 1917 and M.A. (University of Illi-
nois) 1918; B.S. (Union College) 1919
*1 Mec-2206 Atherton st
- Hsun, Jin Jee Nan-Chang, China
B.S. 1917 and M.S. 1918 (University of
Illinois)
*1 Mec-1912 Henry st
- Hubble, Lucille Vivian La Verne
B.M. (University of Redlands) 1917:
A.B. 1919
*1 LS-2554 Haste st Bkly 9258W
- Hudson, Frank Samuel Berkeley
B.S. 1912; cand. Ph.D. (geology)
4 LS-2735 Derby st Bkly 1877W
- Hudson, Maude Frances Hermosa Beach
A.B. 1919
1 LS-2520 Virginia st Bkly 7247
- Huestis, Ralph Ruskin
Edmonton, Alberta, Canada
B.S.A. (McGill University) 1914
1 Agr-2915 Deakin st Bkly 2266
- Huffman, Ruth Scott Lodi
A.B. 1919
*1 LS-2328 Bowditch st Bkly 2152W
- Huggins, Maurice Loyal Berkeley
A.B. and B.S. 1919
1 Chem-2815 Kelsey st Bkly 413W
- Hughes, Gwendolen San Francisco
B.S. (Grinnell College) 1917
2 LS-224 W. Clay st, S F
- Hughes, William Hardin Savannah, Mo.
Ph.B. 1912 and M.A. 1914 (University
of Chicago)
*2 LS-Antioch, California
- Hull, James Howard Berkeley
B.A. (Yale University) 1907
*1 LS-2222 Atherton st Bkly 5479J
- Humphrey, James Willard Claymont, Del.
B.S. 1919
*1 Chem-2238 Chapel st Bkly 3905
- Hunt, Nicholas Rex Pullman, Wn.
B.S. (Washington State College) 1907;
M.S. 1909
*2 Agr-114 Sansome st, S F Krny 5869
- Hunt, William Garrett Oakland
A.B. 1917
2 Juris-2752 Grove st, O Oakd 9098
- Hurley, Louise Marie Oakland
A.B. 1919
1 LS-2531 Chilton way Bkly 8950J
- Hyde, Lillian S. Palo Alto
A.B. (Stanford University) 1903; B.S.
(Columbia University) 1915
2 LS-2240 Telegraph av
- Iddings, Carl San Francisco
B.S. 1918
*1 Chem-2226 Chapel st
- Ingram, Selena Pope Los Angeles
A.B. 1919
*1 LS-2723 Durant av Bkly 9531
- Inman, William Elliott Norwalk
B.S. 1919
*1 Min-2028 Bancroft way Bkly 3222
- Irish, John Hulbert Berkeley
A.B. (Ohio Wesleyan University) 1912
1 Agr-2509 Hearst av Bkly 1151W
- Jacob, Harry Ernest Gahanna, Ohio
B.S. (Ohio State University) 1918
1 Agr-1815 Short st Bkly 3299J
- Jacobs, Charles Huntington Los Angeles
A.B. (Harvard University) 1916
2 Juris-2747 Bancroft way Bkly 1227
- Jacobs, Helen Kathleen Julian
A.B. (Pomona College) 1919
1 LS-1715 La Loma av Bkly 4844W
- Jacoby, Harold Samuel Oakland
A.B. 1917; cand. J.D.
*2 Juris-670 Thirty-fourth st, O
Pied 2167J
- Jaehnig, Fred William Fortuna
A.B. 1919; cand. J.D.
1 LS-2250 Fulton st Bkly 8284
- Jaffa, Edward Moss Berkeley
B.S. 1918
3 Juris-2687 Virginia st Bkly 949
- James, John Thomas San Francisco
A.B. 1916
3 LS-2606 Dwight way Bkly 139
- Jampolsky, Moses Regina, Saskatchewan, Canada
A.B. (McGill University) 1917
*1 LS-772 Everett st, Portland, Ore.
- Jeffers, Hamilton Moore Pasadena
A.B. 1917; Lick Observatory Fellow;
cand. Ph.D. (astronomy)
*3 LS-Faculty Club Bkly 2855
- Jenks, Clarence Arthur Berkeley
A.B. 1919
*1 Chem-2601 Hillegass av

- Jensen, Elizabeth Jutta Ontario
A.B. 1919
1 LS-1536 Second av, O Mer 1861
- Jensen, Mary Allie Laton
A.B. 1919
1 LS-Oxford apts Bkly 9328W
- Jensen, Nydia Merced Riverside
A.B. 1919
1 LS-2900 Russell st Bkly 1382J
- Jensen, Ruth Helen Kansas City, Mo.
A.B. 1919
1 LS-2210 Bowditch st Bkly 8325W
- Jirkowsky, Madeline M. Berkeley
A.B. 1919
12 LS-1739 Addison st
- Johns, Watson Lee Sonora
B.S. 1918
12 Agr-242 Carl st, S F
- Johnson, Alice Elizabeth Oakland
A.B. 1918
1 LS-6465 Hillegass av, O Pied 6611W
- Johnson, Clara Roxana Grinnell, Iowa
Ph.B. (Grinnell College) 1908
1 LS-2316 Fulton st
- Johnson, Harlan Woodbridge Ames, Iowa
B.S. 1914 and M.S. 1915 (Iowa State
College); cand. Ph.D. (soils)
12 Agr-Soils Department, Iowa State Col-
lege, Ames, Iowa
- Johnson, John Edward Benjamin, Utah
A.B. (Brigham Young University) 1915;
cand. J.D.
8 Juris-2202 Blake st
- Johnson, Marguerite Santa Rosa
A.B. 1918; M.A. 1919
2 LS-2611 Durant av Bkly 4525W
- Johnson, Roxana G. Los Angeles
A.B. (Indiana University) 1903; B.S.
(University of Illinois) 1909
1 LS-2214 Dana st Bkly 1160
- Johnson, Wayne Leslie Lindsay
B.S. (University of Wisconsin) 1915
1 Agr-2534 Chilton way
- Johnston, Mason Allen Yerington, Nevada
A.B. 1917
1 Juris-2315 Dwight way Bkly 4026
- Johnston, Wallace Daniel Los Angeles
A.B. 1919
1 LS-2320 Blake st Bkly 8180W
- † Jones, William Cockrell Fort Worth, Texas
A.B. 1917 and M.A. 1918 (Texas Chris-
tian University)
2 LS-Box 64, Alameda
- Justo, Robert Nolasco Buenos Aires, Argentina
B.S. (Oregon Agricultural College) 1919
1 Agr-2307 Hearst av Bkly 6815
- Kaatakoski, Helmi Marja Helsinki, Finland
A.B. 1919
1 LS-880 Union st, S F Pspt 4583
- Kaun, Alexander S. Chicago, Illinois
Ph.B. (University of Chicago) 1916;
M.A. 1918; cand. Ph.D. (Slavic lan-
guages)
2 LS-2705 Hearst av Bkly 745J
- Kawasaki, Benjamin Shinobu Fresno
A.B. 1919
1 Arch-1739 Euclid av Bkly 6441
- Keane, Rita Carlin San Francisco
A.B. 1919
1 LS-2710 Haste st Bkly 8800
- Keats, Evadne Louise Los Angeles
A.B. 1918
12 LS-2406 Bancroft way Bkly 6428
- Kegley, Carl Smith Los Angeles
A.B. (Stanford University) 1917
12 Juris-2337 Channing way Bkly 8278W
- Kellenbarger, Lucetta Nordhoff
Ph.B. (Grinnell College) 1898
1 LS-2232 Blake st Bkly 1089W
- Kellogg, Arthur Remington Lawrence, Kansas
A.B. 1915 and M.A. 1916 (University of
Kansas); cand. Ph.D. (zoology)
13 LS-2218 Union st Bkly 474J
- Kendig, Charles Hope Los Angeles
A.B. 1919
1 Mec-2647 Dwight way Bkly 5831
- Kennedy, John Curtis Chicago, Illinois
A.B. (Cornell University) 1907; Flood
Fellow
3 LS-Head of Canyon rd Bkly 7100
- Kerchen, John Lawrence Berkeley
A.B. 1917; M.A. 1918
2 LS-Cottage No. 5, Campus Bkly 1762J
- Kessel, John Flenniken Ripon
A.B. (Greenville College) 1919
1 LS-1996 University av
- Kibby, Ira Wesley Alameda
A.B. (Colorado State Teachers College)
1918
1 LS-3035 Logan st, O
- Kilkenny, Lucas Edward Berkeley
Ph.B. 1898
2 Juris-2331 Ward st Bkly 1020J
- Kincaid, Elbert Alvis Berkeley
A.B. (Washington State College) 1910;
M.A. (Harvard University) 1911;
cand. Ph.D. (economics)
14 LS-1215 Shattuck av Bkly 4914W
- Kinell, Marie Elizabeth Berkeley
A.B. (Bethany College) 1907
12 LS-2211 Stuart st Bkly 5832

† In residence first half-year; in absence second half-year.

- King, Anna Venn Berkeley Krause, Anna Los Angeles
A.B. 1907
24 LS-2445 Channing way Bkly 7068J
- King, Carl Seattle, Wn. Kravchyk, Elizabeth Cecelia Los Angeles
A.B. 1918
1 Mec-1802 LeRoy av Bkly 4483
- King, Harriet S. Banning Kravchyk, Josephine L. Los Angeles
A.B. (Stanford University) 1910
21 LS-2345 Divisadero st, S F Flmr 1476
- King, Kenneth Van Ness Ashland, Ore. Krehbiel, Ruth M. Reedley
A.B. 1919
1 Min-1802 Walnut st
- Kingman, Harry Lees Claremont Kreighbaum, Esther Lola Fullerton
A.B. (Pomona College) 1914
2 LS-2218 Dana st Bkly 8267
- Kingsbury, Milton Ladd Stockton Krotoszyner, Hilda J. San Francisco
A.B. 1919
1 Juris-2401 Durant av Bkly 6504
- Kirkpatrick, Paul Harmon Los Angeles Kruger, Charles H. Berkeley
B.S. (Occidental College) 1916
1 LS-2001 Allston way Bkly 6710
- Kirschman, H. Darwin Pasadena Kuck, Loraine Elizabeth Los Angeles
B.S. 1915 and M.S. 1916 (Throop College)
1 Chem-2008 Grant st Bkly 7945W
- Kitagawa, Masae San Francisco Kuder, Blanche Bane Norristown, Pa.
B.S. 1919
21 Com-1739 Euclid av Bkly 6441
- Kittrell, Beatrice Berkeley Kunsman, Charles Henry Berkeley
A.B. (University of Washington) 1916
21 LS-2400 Piedmont av Bkly 5224
- Kleeberger, Frank Louis Visalia Kunsman, Leof Mills Los Gatos
B.S. 1908; M.A. 1912
23 LS-Harmon Gymnasium, Campus
Bkly 844
- Kleiner, Mathilde San Francisco Kuntz, Olive Pomona
Graduate (Wilhelms Gymnasium, Hamburg) 1908; M.A. (Columbia University) 1916; cand. Ph.D. (German)
3 LS-Hotel Claremont Bkly 9800
- Knowles, Muriel Eleanor Fortuna Kurtz, Edward Pasadena
A.B. 1919
1 LS-2212 Rose st Bkly 2327W
- Knudsen, Dagmar San Francisco Kuykendall, Ralph Simpson Santa Clara
B.L. 1914; M.A. 1918
23 LS-4122 Gilbert st, O Pied 5013W
- Kobayashi, Kinuji Berkeley Kyle, William Bailie San Francisco
LL.B. (Kansai University) 1913; A.B. 1917; J.D. 1919
25 LS-2746 Garber st Bkly 1734
- Koch, Frederick William Berkeley Kyte, George Cleveland Oakland
B.S. 1896; M.A. 1917
2 Agr-2043 Berryman st Bkly 5144W
- Kracaw, Theodora Cavel Orland Lacoste, George John Oakland
A.B. 1919
2 Juris-2200 Piedmont av Bkly 6601
- 1 LS-5554 Lawton av, O Pied 6492W

- Laiblin, Martha F. Chicago, Illinois
Ph.B. (University of Chicago) 1911
*1 LS-1514 Franklin st, O Lksd 5086
- Lambert, Charles Albert Suisun
A.B. 1918
1 Juris-2420 Channing way Bkly 7404W
- Lamborn, Clyde Francis Alameda
A.B. 1919
2 Juris-1428 Morton st, A Ala 1694
- Landon, Mary Augusta San Anselmo
A.B. (Mills College) 1909
*2 LS-San Anselmo SA 232
- Lang, Lilly Remsen, Iowa
A.B. 1919
*1 LS-1802 LeRoy av Bkly 3457
- Lange, Caroline Penny Berkeley
A.B. (University of Michigan) 1890
*2 LS-2601 LeConte av Bkly 424
- Langlard, Henri Beaume, France
S.T.B. (Catholic University of Paris)
1900
*1 LS-707 Jefferson st, O Oakd 4702
- La Prade, Arthur Thornton Winslow, Ariz.
A.B. 1917; cand. J.D.
3 Juris-1539 Arch st Bkly 2087W
- La Prade, Lucile Hooper Santa Barbara
A.B. 1917
1 LS-1539 Arch st Bkly 2087W
- Lassen, Anita Mary Oakland
A.B. 1919
1 LS-1502 Peralta st, O
- Laton, Anita Duncan Sebastopol
A.B. 1917
3 LS-1601 Posen av Bkly 9074J
- Lee, Laura Myrtie Long Beach
A.B. 1919
*1 LS-326 El Cerrito av, P Pied 1883
- Leitner, Leila Jones Atlanta, Ga.
A.B. 1919
1 LS-1354 Scenic av Bkly 2099W
- Leiva, Lamberto Philippine Islands
M.D. (University of the Philippines) 1917
*1 LS-2039 Shattuck av Bkly 4929
- Lenzen, Victor Fritz San Francisco
B.S. 1913; Ph.D. (Harvard University)
1916
1 LS-2218 Dana st Bkly 3267
- Leonard, Frederick Charles Chicago, Illinois
B.S. 1918 and M.S. 1919 (University of
Chicago)
1 LS-Faculty Club, Campus Bkly 2855
- Leonard, Lewis Yoder Puyallup, Wn.
B.S. 1910 and M.S. 1918 (Washington
State College)
*1 Agr-1707 Channing way
- Leslie, Ernest Samuel Berkeley
A.B. 1919
2 Juris-1528 Walnut st Bkly 3677J
- Levey, W. Scott Shamokin, Pa.
B.S. (Delaware College) 1919
*1 Chem-2233 Chapel st Bkly 8905
- †Levy, Ethel Alameda
B.L. 1914
*2 LS-5317 Manila av, O
- Levy, Hazel Los Angeles
A.B. 1919
1 LS-670 Brockhurst st, O Pied 1010W
- Lewis, Charles Henry Fresno
A.B. (Occidental College) 1918; M.A.
(Princeton University) 1916
1 LS-2500 Dana st Bkly 8296W
- Lewis, Russell William Newberg, Oregon
B.S. (Pacific College); Ph.B. (Penn
College) 1910
1 LS-2311 Haste st
- Lindquist, Eldora Carlson Patterson
A.B. 1918
*1 LS-1616 Oxford st Bkly 2988W
- Lindquist, Rudolph Daniel Berkeley
A.B. 1915
1 LS-1616 Oxford st Bkly 2988W
- Lindsay, Allan Peter Milford
A.B. 1919
*1 LS-2248 Telegraph av Bkly 9011
- Linforth, Reginald Heber Berkeley
A.B. 1916; cand. J.D.
3 Juris-2740 Derby st Bkly 258
- Lippman, Marion Hyman San Francisco
B.S. 1913; M.S. 1914
4 LS-135 Stockton st, S F Grfd 541
- Litch, Vernie Marian Chico
A.B. 1919
*1 LS-838 Ashbury st, S F Mrkt 8321
- Livingstone, Theodora de Laplene
Edinburgh, Scotland
M.A. 1917
*3 LS-2311 Bancroft way Bkly 214
- Lobree, Alvin A. San Francisco
A.B. 1919
*1 Juris-2214 Dana st Bkly 1160
- Lockhart, Mabel Margaret Santa Rosa
A.B. 1912; M.S. 1915
2 LS-2207 Haste st Bkly 2298J
- Lockwood, Lillian El Paso, Texas
A.B. 1919
1 LS-1549 LeRoy av Bkly 8598W
- Logan, Benjamin Boone Sacramento
A.B. 1917
2 Juris-282 Eighth st, O Oakd 7285
- Long, Nellie May Tulare
A.B. (Occidental College) 1919
1 LS-2531 Channing way Bkly 7068W
- Longenecker, Harry Ellsworth Berkeley
B.S. 1900 and M.S. 1904 (Ohio North-
western University)
*2 LS-2035 Channing way Bkly 2515
- Lorimer, Irene Helen Oakland
A.B. 1919
1 LS-1817 Ninth av, O Mer 4412

- Lovejoy, Winifred Vallejjo
A.B. (University of Washington) 1912
21 LS-1261 Broderick st, S F
- Lowe, Yarlock Berkeley
A.B. 1916
2 Juris-2118 Durant av
- Lowell, Clifford Elmer Berkeley
A.B. (Bowdoin College) 1904
22 LS-911 Peralta av Bkly 2665W
- Lowery, Helen Davis Berkeley
A.B. 1917
21 LS-2644 Dwight way Bkly 2588
- Lowther, Florence de Loisselle
New York, N. Y.
A.B. (Barnard College) 1912; M.A. (Columbia University) 1915
21 LS-26 Tunnel rd
- Lum, Donald Dyer Alameda
A.B. 1919
2 Med-1367 Third av, S F
- Lunt, George Hunter Cedar City, Utah
A.B. (University of Utah) 1913
1 Juris-2445 Derby st
- Lutjeharms, Dolly Cora Alma, Nebraska
A.B. (University of Nebraska) 1919
1 LS-2695 Cedar st Bkly 538W
- Lyon, Lois Valentine San Francisco
A.B. 1917
21 LS-1700 Euclid av Bkly 6789
- Lysholm, Olaus Krabbe Trondhjein, Norway
C.E. (Trondhjein Tekniske Cauenshalt) 1915
21 CE-99 Divisadero st, S F Mrkt 6186
- Maas, George Baltus Anaheim
A.B. 1918
1 LS-2035 Channing way Bkly 2515
- McCarthy, Daniel Thaddeus
Denver, Colorado
A.B. (University of Colorado) 1912
2 LS-1030 Merced st Bkly 163W
- McCarty, Arthur Louis
Columbia City, Indiana
A.B. (University of Michigan) 1908; M.A. 1915
23 LS-2525 Cedar st Bkly 5278
- McCharles, Stella Ball Berkeley
B.S. 1908
2 LS-2524 Hilgard av Bkly 3345J
- McComas, Maud Pearl Pomona
A.B. 1905
22 LS-129 Haight st, S F
- McCroskey, Geraldine Fay Pomona
A.B. 1919
21 LS-2248 Blake st
- McCully, Margaret Sacramento
A.B. 1919; Joseph Bonnheim Memorial Scholar
1 LS-2749 Dwight way Bkly 6444
- McCurtain, Lucile Victoria Berkeley
A.B. (Mount Holyoke College) 1916
21 LS-1941 Carlton st
- McDonald, Bruce Harold Berkeley
A.B. (Occidental College) 1914
1 LS-2300 Virginia st Bkly 3907W
- Macdonald, Dorothy Childs San Francisco
A.B. 1918
2 LS-2629 Haste st Bkly 3287
- McEntyre, Sophia Berkeley
A.B. 1915
2 LS-2515 College av Bkly 7344W
- McFarland, Elsie Jeannette Pasadena
A.B. 1917; M.A. 1918; cand. Ph.D. (mathematics)
3 LS-2514 Virginia st Bkly 7792
- McGeoch, John A. San Francisco
A.B. (Westminster College) 1918; M.A. (Colorado College) 1919
1 LS-2510 Channing way Bkly 6754J
- McGrath, Allen Kier Berkeley
A.B. 1919
2 Med-1811 Berkeley way Bkly 2904
- McGrath, Warren Thomas Berkeley
A.B. 1919
1 LS-1613 Grove st Bkly 6329J
- MacGregor, Charlotte Favor Piedmont
A.B. 1918; cand. J.D.
3 Juris-622 Highland av, P Pied 2691
- McGregor, Elizabeth Colson Berkeley
A.B. (Pomona College) 1918
23 LS-2442 Piedmont av Bkly 5940W
- McGugin, Winifred Berkeley
Ph.B. (University of Chicago) 1904
22 LS-2311 Bancroft way Bkly 214
- MacIver, Ivander El Paso, Texas
A.B. 1917; M.A. 1919
2 LS-1534 Arch st Bkly 2230
- McKay, Donald Graham Berkeley
A.B. 1919
1 Agr-3083 Capp st, O
- Mackay, Dorothy Louise San Francisco
A.B. 1918; M.A. 1919
2 LS-186 Saturn st, S F Mrkt 3677
- McKellips, Grace Elise Oakland
A.B. 1919
1 LS-4794 Edgewood av, O Mer 2271
- McKelvey, Katharine Finley Los Angeles
A.B. (Occidental College) 1916
1 LS-2520n Ridge rd
- McKinlay, Dora Berkeley
A.B. 1919
1 LS-2125 Hearst av Bkly 2125
- McKinley, Gertrude Beatrice Long Beach
A.B. (Pomona College) 1919
1 LS-2525 Piedmont av Bkly 3679J
- McKnight, Lucile Minneapolis, Minn.
A.B. (University of Minnesota) 1918
21 LS-2021 Forty-eighth av, O Frvl 812W
- McLaughlin, Lula E. McAlester, Oklahoma
B.S. (University of Chicago) 1913
21 LS-2632 Channing way

McLenegan, Edith Marion A.B. 1919 21 LS-2728 Belrose av	Berkeley Bkly 3434	Mann, Margaret Campbell A.B. (University of Oregon) 1915; M.A. 1918; James M. Goewey Scholar in Zoology; cand. Ph.D. (zoology) 3 LS-2604 Etna st	Berkeley Bkly 5602
McMahon, Alvin Edward B.S. 1919 1 Mec-2304 Telegraph av	San Francisco Bkly 3428	Mantz, Ruth Walker A.B. (Stanford University) 1919 11 LS-1825 Highland pl	Redwood City Bkly 2809W
McMillan, Elizabeth Davidson B.L. 1900 11 LS-614 Twenty-fifth st, O	Oakland Oakd 9052	Manuel, Helen Louise A.B. 1919 1 LS-147 Kingston av, O	Oakland Oakd 6188
McMillin, Flossie Minerva A.B. 1919 1 LS-1809 Bonita av	Redondo Beach Bkly 7521W	Marhenke, Paul A.B. 1919 21 LS-Campus Cottage No. 5	Pasadena Bkly 1762J
MacNair, Hazel Farnsworth A.B. 1919 21 LS-2231 Cedar st	Redlands Bkly 6451W	Maris, Isabel B.S. 1910 and A.B. (Ohio State Uni- versity) 1912 4 LS-2803 Parker st	Berkeley Bkly 7652W
McNiece, Renwick Sloane A.B. (Princeton University) 1907 11 LS-Euclid apts	Berkeley Bkly 7521W	Markley, Rachel Catherine A.B. 1919 1 LS-2534 Bancroft way	Fresno Bkly 8325J
Macomber, Henry Wade A.B. 1918 1 Med-2617 Cedar st	Alameda Bkly 2002W	Marra, Ubaldo Joseph A.B. 1915 and M.A. 1919 (New York University) 1 LS-P. O. box 117	New York, N. Y. Bkly 2771J
Macpherson, Ethel Marguerite A.B. 1919 1 LS-2749 Dwight way	Sacramento Bkly 6444	Marshall, Helen Laughlin A.B. (Smith College) 1913 21 LS-809 Shattuck av	Berkeley Bkly 2771J
McSweeney, Nora Theresa A.B. 1919 1 LS-2526 Hilgard av	El Monte Bkly 1441	§Martens, Elise Henrietta A.B. 1906 2 LS-2720 Alcatraz av	Oakland Pied 4188W
Madison, Marshall Pierce A.B. 1917 3 Juris-1925 Gough st, S F	San Francisco Flmr 4402	Martin, Charles Emanuel B.L. 1914; M.A. 1915; Ph.D. (Columbia University) 1918 3 LS-Faculty Club, Campus	Santa Ana Bkly 3959W
Madsen, Louise Hamburg A.B. 1918 21 LS-2221 Parker st	Solvang Bkly 5284J	Martin, Delia Cole A.B. 1919 1 LS-2721 Channing way	Los Angeles Bkly 808
Maeser, Sherwin A.B. (Brigham Young University) 1909 1 Chem-2217 Fulton st	Berkeley Bkly 3810	Martin, Edward Atherton A.B. 1918 2 Juris-2119 Bancroft way	Oakland Bkly 6428
Magee, George Richard A.B. 1919 2 Med-820 Thirty-sixth av, O	Los Angeles	Martin, Eva Esther A.B. 1917 2 LS-2406 Bancroft way	Santa Ana Bkly 6428
Mah, Wing Ngui A.B. (University of Illinois) 1916; M.A. 1917; cand. Ph.D. (political science) 2 LS-3050 Hillegass av	Berkeley Bkly 1677W	Martin, George Handel, Jr. A.B. 1915 12 LS-2043 Los Angeles av	Los Angeles Bkly 3959W
Major, Hortense Luella A.B. (Utah Agricultural College) 1915 11 LS-2400 Dwight way	Palo Alto Bkly 4244W	Martin, James Otis B.S. 1899 and M.A. 1901 (Cornell Uni- versity) 1 Agr-2415 Haste st	Pasadena Bkly 8214W
Major, Jack A.B. (Utah Agricultural College) 1914 1 LS-2400 Dwight way	Palo Alto Bkly 4244W	Martin, William Franklin B.S. 1908; C.E. (University of Texas) 1904; M.C.E. (Cornell University) 1906 1 LS-1054 Mariposa av	Berkeley Bkly 8214W
Malloch, Walter Scott B.S. 1919 1 Agr-2801 Regent st	Napa Bkly 5307J		

§ In absence first half-year; in residence second half-year.

- Martinez, Angel Manila, P. I.
A.B. 1916 and B.S. 1919 (University
of the Philippines)
1 CE-2001 Allston way Bkly 6710
- Martinez, Rufino Manila, P. I.
B.S. (Purdue University) 1918
2 Mec-2248 Telegraph av Bkly 9011
- Martyr, Frederick Augustus Oakland
A.B. 1919
1 LS-2961 Pine av Bkly 6932
- Mason, Aileen Patricia Berkeley
A.B. 1919
*1 LS-2201 Ward at Bkly 7075W
- Mason, Clifford Verne Lodi
A.B. 1919
2 Med-2119 Addison st Bkly 5393W
- Mathews, Philip Strong Pasadena
A.B. 1919
*2 Juris-2421 Ward at Bkly 5903J
- Matsui, Shichiro Annaha, Japan
LL.B. (Doshicha University) 1919
*1 LS-Oak Knoll ter Bkly 783
- Matthews, Herbert Hill San Rafael
A.B. (University of Oregon) 1913
1 LS-101 H st, S R SR 323W
- Maxwell, William Clarence Woodland
A.B. (Stanford University) 1918
1 LS-620 Costa Rica av, S M SM 1229
- Maze, Merton Melville Modesto
A.B. 1919
*1 Juris-2610 Durant av Bkly 7804
- Mazzera, Harry Albert Stockton
A.B. 1919
2 Juris-2247 Bancroft way Bkly 3873
- Mecham, John Lloyd San Bernardino
A.B. 1916; M.A. 1917; Native Sons
Fellow
2 LS-2214 Dana st Bkly 5043W
- Meese, Edwin, Jr. Oakland
A.B. 1918; cand. J.D.
3 Juris-4424 Edgewood av, O Mer 2762
- Mel, Marian Louise San Francisco
A.B. 1913
*1 LS-1429 Spruce st Bkly 2041
- Meltzer, Leonard Joseph Piedmont
A.B. 1917
2 Juris-1090 Ardmore av, O Lksd 5162
- Merenbach, Nathan San Francisco
A.B. 1919
*1 Juris-2106 Delaware st Chicago, Illinois
- Merker, Marguerite Eugenie Chicago, Illinois
B.S. (Northwestern University) 1917
*1 LS-630 Steiner st, S F Berkeley
- Merrill, Henry Baldwin Berkeley
B.S. 1916 and M.S. 1917 (University of
Wisconsin)
1 Chem-2337 Telegraph av Bkly 5025W
- Merrill, Reynold Cluff Richmond, Utah
A.B. 1914 and M.A. 1917 (University
of Utah); cand. Ph.D. (education)
1 LS-1933 Grove st Bkly 8581W
- Metcalf, Alice Helen Los Angeles
A.B. 1916
2 LS-2315 Hilgard av Bkly 2157J
- Miles, Dorothy San Francisco
A.B. 1917
*1 LS-Cambridge apts Bkly 8064W
- Miles, Winifred Charlotte Berkeley
A.B. 1919
*1 LS-2500 Bancroft way Bkly 1848
- Miller, Daryl Branch Berkeley
A.B. (Columbia University) 1915
*1 LS-2737 Woolsey st Bkly 2313
- Miller, Edward Robert Berkeley
A.B. 1919
*1 LS-PreM-3006 Grove st Bkly 6943W
- Miller, Francis Hobart Berkeley
A.B. 1919
*1 LS-1715 Spruce st Bkly 6641W
- Miller, Roland McLeod Los Angeles
A.B. (University of British Columbia)
1916
1 Com-2606 Dwight way Bkly 139
- Mitchell, Anthony Laurence Los Angeles
A.B. 1918; cand. J.D.
3 Juris-2200 Piedmont av Bkly 6601
- Mitchell, Mary Octavia Hampton, Iowa
A.B. (State University of Iowa) 1917
1 LS-2738 Forest av Bkly 6773W
- Mitrani, Charles Berkeley
A.B. 1916; M.A. 1917
2 LS-2425 Bancroft way Bkly 1743
- Moberg, Erik Gustaf Berkeley
B.S. 1916 and M.S. 1917 (University of
North Dakota)
*1 LS-2248 Telegraph av Bkly 9011
- Mock, Marjorie Thornton Oakland
A.B. 1919
1 LS-5105 Genoa st, O Pied 3361
- Molle, Euphrasia Los Angeles
M.A. 1917
*1 LS-2642 Bancroft way Bkly 653
- Moller, Mabel J. Oakland
A.B. 1916
1 LS-426 Twenty-ninth st, O Oakd 7839
- Montague, Margaret Portland, Oregon
A.B. (Vassar College) 1916
1 LS-2500 Durant av Bkly 8064J
- Montgomery, Clifford Marvin Berkeley
A.B. (Southwestern University) 1914;
M.A. 1919
2 LS-2316 Allston way Bkly 7246
- Montgomery, Edith May Houstonia, Missouri
A.B. (Park College) 1907
1 LS-2305 Bancroft way

- Montgomery, Guy Berkeley
A.B. (University of Nebraska) 1909;
M.A. 1917; cand. Ph.D. (English)
3 LS-111 Shasta av Bkly 8752J
- Montgomery, Helen Rebecca Long Beach
A.B. 1919
1 LS-1715 LeRoy av Bkly 2351
- Moore, Helen Jeannette Los Angeles
A.B. 1919
1 LS-2520 Virginia st Bkly 7247
- Moore, Myrna Rebecca Santa Rosa
A.B. 1919
1 LS-2328 Bowditch st Bkly 2152W
- Morgan, Charlotte Elizabeth Berkeley
A.B. 1919
1 LS-2401 Hilgard av Bkly 8694J
- Morgan, Walter Emmett Alameda
A.B. 1919
1 LS-1014 Lincoln av, A Ala 3043W
- Morrison, Benjamin Henry Colorado
A.B. 1917 and M.A. 1919 (Colorado
State Teachers College)
1 LS-1802 Bonita av
- Morrison, Beulah May Laton
A.B. 1919
1 LS-2328 Bowditch st Bkly 2152W
- Morrison, Richard Howard
Ellendale, North Dakota
A.B. 1916
2 Juris-3423 Webster st, O Pied 4669W
- Morse, Harold Abnee Oakland
A.B. 1919
1 Med-2333 College av Bkly 1722
- Morse, Roy Robert Oakland
B.S. 1913; University Fellow in Geology;
cand. Ph.D. (geology)
3 LS-5715 Fleming av, O Elm 943
- Mortensen, George Emil San Lorenzo
A.B. (Stanford University) 1910
1 LS-2204 Encinal av, A Ala 1891W
- Moses, Florence Emma Oakland
A.B. 1919
1 LS-5424 Claremont av, O
- Mudd, Seeley Greenleaf Los Angeles
B.S. (Columbia University) 1917
1 LS-Hotel Whitecotton Bkly 7300
- Muldoon, Madeline Ann Berkeley
A.B. 1917
1 Med-2417 Blake st Bkly 6976
- Murchio, George Alexander Clayton
A.B. 1919
2 Juris-5459 Boyd av, O
- Murphy, Helen A. Niles
A.B. 1919
1 LS-451 Twenty-eighth st, O Oakd 6707
- Neeley, Hazel Pearle Lodi
A.B. 1919
1 LS-2519 Hillegass av Bkly 477
- Neilson, Nelsine Marion Berkeley
B.L. 1914; M.A. 1915; cand. Ph.D. (re-
search medicine)
3 LS-1249 Fourth av, S F
- Nelson, Alma Vacaville
A.B. 1919
1 LS-2524 Virginia st Bkly 2271W
- Ness, John Andreas San Francisco
LL.B. (University of Minnesota) 1911
2 Med-1000 Hyde st, S F Frkn 3700
- Neuman, Elizabeth Theodora Nome, Alaska
A.B. 1919
1 LS-2237 Atherton st Bkly 4968
- Newell, Dorotea Alicia Berkeley
A.B. 1919
1 LS-2726 Derby st Bkly 7178J
- Newell, Sarah Sword New Castle, Pa.
A.B. 1919
1 LS-2525 Durant av Bkly 8415
- Newport, Mildred Hanford
A.B. 1919
1 LS-1720 Oxford st Bkly 6114W
- Newton, Clair Mead Corona
A.B. 1919
1 LS-1232 Spruce st Bkly 8580J
- Newton, Irene Elwonger Corona
A.B. 1918; M.A. 1919
1 LS-1282 Spruce st Bkly 3580J
- Newton, Roy Frederick Chicago, Illinois
B.S. (Northwestern University) 1916
3 Chem-2435 Haste st Bkly 1980
- Newton, William Victoria, B. C.
B.S. (McGill University) 1914
1 Agr-2273 Shattuck av Bkly 6164
- Nielsen, Anita Kjestine Gridley
A.B. 1919
1 LS-2520 Virginia st Bkly 7247
- Nielsen, Bertha Christine Deweyetta Gridley
A.B. 1919
1 LS-2520 Virginia st Bkly 7247
- Noack, Thea Sacramento
A.B. (Stanford University) 1919
1 LS-2618 Durant av Bkly 1803
- Noland, Leila New York, N. Y.
A.B. (Smith College) 1914
1 LS-125 Shasta st
- Norcross, Archie Rice Berkeley
A.B. 1919
1 CE-2435 Haste st Bkly 1980
- Norton, John Kelley Oakland
A.B. 1916 and M.A. 1917 (Stanford
University)
1 LS-2101 Telegraph av, O Lksd 1700
- Noyes George Rapall Berkeley
A.B. 1894, M.A. 1895 and Ph.D. 1898
(Harvard University)
12 LS-1434 Greenwood ter Bkly 1767J

- Nuland, Lester Hall San Andreas
A.B. 1919
2 Juris-1711 Euclid av Bkly 3378
- Nutting, Elizabeth May Berkeley
A.B. 1919
1 LS-2910 Regent st Bkly 304
- Nyman, Rudolph Francis Schenectady, N. Y.
A.B. (University of Michigan) 1908;
LL.B. (University of Chattanooga)
1909; M.A. 1916
3 LS-1707 Grove st Bkly 6967J
- Ollerton, James Adams Tempe, Arizona
A.B. (Brigham Young University) 1914
1 LS-1734 Allston way Bkly 7366J
- O'Neil, Catherine Mary San Francisco
A.B. 1919
*1 LS-2024 Channing way
- O'Neill, Frank Elisha San Francisco
A.B. (Richmond College) 1915
*1 Min-2649 Van Ness av, S F Frkn 6179
- Orynski, John Bowen Berkeley
B.S. 1914
1 Com-1930 Home st Bkly 5837J
- Ottley, Alice Maria Wellesley, Mass.
A.B. (Cornell University) 1904; M.A.
(Wellesley College) 1906
1 LS-2417 Bancroft way Bkly 1445
- Oviedo, Louis Jerome San Francisco
A.B. 1918
2 Med-132 Appleton av, S F Valen 5248
- Pages, Albert Decazeville, Aveyron, France
L. ès L. (University of Bordeaux) 1912
1 LS-2325 Dana st Bkly 8383
- Pal, Nalini Mohan Calcutta, India
B.S. 1916; M.S. 1917; cand. Ph.D.
(economics)
3 LS-2353 Prospect st Bkly 1612J
- Palmer, Emily Godfrey Berkeley
A.B. (Colorado College) 1906
2 LS-2725 Prince st Bkly 2943W
- Pang, Dai Tung Detroit, Michigan
B.Ch.E. 1916 and M.S. 1919 (University
of Michigan)
*2 Min-2504 Regent st Bkly 3893J
- Papastavro, Tellis Salt Lake City, Utah
A.B. 1919
*1 LS-1633 Channing way
- Pardini, Julian Grass Valley
A.B. 1919
2 Juris-2214 Union st Bkly 2483
- †Parker, Davies Trask
A.B. (University of Texas) 1917
5 LS-1502 Alice st, O
Parker, Isabel Margaret Claremont
A.B. (Pomona College) 1919
1 LS-2628 Durant av Bkly 4772
- Parker, Katherine Mary San Francisco
A.B. 1917
*2 LS-106 Eighth av, S F Pac 4568
- Parks, George Sutton Berkeley
B.S. 1915 and M.S. 1916 (University
of Washington)
*4 Chem-2313 Hilgard av
- Pash, Madeleine Florence Saratoga
A.B. 1919
*1 LS-2721 Channing way Bkly 808
- Patrick, George Zinovei New York, N. Y.
LL.B. (University of Paris) 1911
*1 LS-2360 Ellsworth st Bkly 4098W
- Patrick, Helen Simon New York, N. Y.
A.B. (University of Kiev) 1914
*1 LS-2860 Ellsworth st Bkly 4098W
- Patton, Frances Jane Arbuckle
A.B. 1915
*3 LS-2315 Dwight way Bkly 4026
- Patty, Willard Walter Berkeley
A.B. (Iowa State Teachers' College) 1914
1 LS-2427 Durant av
- Paul, Lealie Alameda
A.B. 1919
*1 Mec-1802 San Antonio av, A Ala 1950
- Pavid, Leander Leo Berkeley
A.B. 1916
*1 LS-2215 Ellsworth st Bkly 1468W
- Payne, Anna Melrose Washington, D. C.
A.B. 1911
*1 LS-2712 Derby st Bkly 5558J
- Pearce, Carlyle Melville Oakland
A.B. 1918
1 Med-1535 E. Fourteenth st, O Mer 4283
- Pearce, Forrest Merville Oakland
A.B. 1918
1 Juris-1535 E. Fourteenth st, O Mer 4283
- Pearl, Felix L. San Francisco
A.B. 1919
2 Med-241 Eleventh av, S F Pac 1136
- Pearson, Cecil Philip New York, N. Y.
A.B. (University of Wisconsin) 1916
1 LS-2234 Haste st Bkly 149W
- Peixotto, Eustace Maduro San Francisco
B.L. 1908
*1 LS-3838 Sacramento st, S F Pac 5893
- Penney, Ray DeForest San Francisco
Ph.B. (University of Chicago) 1911
*1 LS-653 Sutter st, S F Frkn 3197
- Perkins, George Clement Oakland
A.B. 1918
2 Juris-2200 Piedmont av Bkly 6601
- Persell, Edgar Clinton Berkeley
A.B. 1919
1 Mec-2747 College av Bkly 7670W
- Peterson, Ruth Esther Ortonville, Minnesota
A.B. 1911
1 LS-2443 Piedmont av Bkly 4590W

- Pettit, Honor Kathleen Fowler
A.B. (Park College) 1919
1 LS-1632 Spruce st Bkly 570J
Pettit, Muriel M. S. Santa Rosa
A.B. 1919
21 LS-2521 Piedmont av Bkly 3725W
Pfund, Southall Rozelle Sacramento
A.B. 1917
21 Juris-2625 Hearst av Bkly 4025
Philbrook, F. Brayton Santa Cruz
A.B. 1919
21 LS-2380 Telegraph av Bkly 9227
Phipps, Thomas Erwin Austin, Texas
A.B. 1915 and M.A. 1916 (University of Texas)
2 Chem-2435 Haste st Bkly 1980
Pierce, Dixwell Lloyd Davis
A.B. 1919
2 Juris-1616 LeRoy av Bkly 2991
Pierson, Celia Dan San Pedro
A.B. 1919
21 LS-2318 Telegraph av Bkly 5964
Pierson, Margaret Wellesley, Mass.
A.B. (Wellesley College) 1918
21 LS-2309 Bancroft way Bkly 7877W
Plath, Otto Emil Seattle, Washington
A.B. (Northwestern College) 1910; M.A. (University of Washington) 1912
4 LS-2223 Union st
Platt, Florence McHugh Berkeley
Ph.B. (University of Michigan) 1900;
M.A. (University of Denver) 1916
21 LS-3123 Eton av Pied 7816W
Ploeger, Louise Margaret San Francisco
A.B. 1919
1 LS-2700 College av Bkly 1442J
Pobanz, John Frederick
Sebewaing, Michigan
A.B. (University of Michigan) 1916
21 LS-2428 College av Bkly 1033J
Podrasnik, Marie Antoinette Upland
A.B. (Mills College) 1919
1 LS-2624 Virginia st Bkly 3663
Polsdorfer, Agnes Ricker Los Angeles
A.B. 1918
2 Juris-2409 College av Bkly 8933
Polson, Reba Berkeley
B.S. (Missouri State Teachers' College) 1917
1 LS-2117 Cedar st Bkly 7907W
Pomeroy, William Cyrus Berkeley
B.S. 1914; Whiting Fellow
5 Mec-2333 Channing way Bkly 8515W
Pope, Zemula Marmaduke Los Angeles
A.B. (University of Southern California) 1919
1 LS-2624 Virginia st Bkly 8663
Porter, Alberta Berkeley
B.S. (Utah Agricultural College) 1919
1 LS-2004 Bancroft way
Porter, Cornelia Carolynne La Jolla
A.B. (University of Colorado) 1915
1 LS-1101 Keeler av Bkly 5048J
Porter, Livingstone Berkeley
A.B. (Harvard University) 1916
1 LS-1101 Keller av Bkly 5048J
Posner, Jacob Joseph San Francisco
A.B. 1919
2 Juris-2334 Durant av Bkly 8485
Possons, Marion Elida Fresno
A.B. (Mills College) 1918
2 LS-Mills College, O Elm 10
Powell, Cora E. Riverside
A.B. 1918
2 LS-2533 Durant av Bkly 665
Powelson, Inez Dale Berkeley
A.B. (Vassar College) 1912
1 LS-2314 Haste st
Power, Lester Barnum San Francisco
A.B. 1919
1 LS-1526 Masonic av, S F Park 6023
Powers, Carroll Morris Claremont
A.B. (Pomona College) 1918
21 LS-2208 Ellsworth st Bkly 7912J
Powers, Grace Sarah Oakland
A.B. 1919
1 LS-3032 Blossom st, O Frvl 286W
Prall, Dorothea Berkeley
A.B. (University of Michigan) 1910;
M.A. 1919
4 LS-1420 LaLoma av Bkly 7348
Pratt, Anne Stokeln Los Angeles
A.B. (Bryn Mawr College) 1906
24 LS-2516 Ridge rd Bkly 4845W
Pratt, Benjamin Harrison Topeka, Kans.
B.S. 1914; M.S. 1915; cand. Ph.D. (anatomy)
2 Med-959 Peralta av
Pressley, Eva Smith Berkeley
A.B. 1918
2 LS-1003 Mariposa av Bkly 6057W
Prestage, Emma Gladys Porterville
A.B. 1919
21 LS-2226 Chapel st Bkly 879
Price, Chalmers G. Santa Cruz
A.B. 1919
21 LS-1418 Scenic av Bkly 3659J
Price, Clarence Merle Highland
B.S. 1914
21 LS-1770 Broadway, O Oakd 1171
Prince, Eugene Mitchell Tuolumne
A.B. 1917; cand. J.D.
3 Juris-2625 Hearst av Bkly 9535
Prosser, Elsie Vivian Berkeley
A.B. 1919
1 LS-2806 Regent st
Quill, Albert A. Crockett
A.B. (Santa Clara University) 1918
22 Juris-1810 Virginia st

- Rabinowitz, Bert Franklin San Francisco
A.B. 1917; cand. J.D.
3 Juris-2522 Dana st Bkly 2368W
- Radin, Rose E. New York, N. Y.
A.B. (Hunter College) 1905
11 LS-1732 Highland pl Bkly 3158W
- Rahill, Marion Edith Berkeley
A.B. 1919
1 LS-1127 Spruce st Bkly 3408J
- Rakestraw, Boyd Bremer Berkeley
B.S. 1916
11 LS-2543 Chilton way
Rakshit, Hemendra Kisor Berkeley
A.B. (University of Wisconsin) 1914;
M.A. 1919
- 13 LS-2026 Center st Bkly 2796
Ramage, William D. Eugene, Oregon
B.S. 1918
11 Chem-2536 Chilton way Bkly 9099
- Rand, Grace Delight Escondido
A.B. 1919
1 LS-2400 Bancroft way Bkly 6488J
- Randolph, Victor Strong Riverside
A.B. (Milton College) 1915; A.B. 1919
2 Med-1425 Fifth av, S F
- Raphael, James Clarence Berkeley
A.B. 1919
1 Med-3019 Harper st Bkly 1641J
- Raven, Icie Gertrude Los Banos
A.B. 1919
1 LS-2417 LeConte av Bkly 5650
- Raynolds, Evelyn Board Pasadena
B.L. 1914; M.A. 1915
2 LS-1802 LeRoy av Bkly 7288J
- Read, Genevieve Harriet Oakland
A.B. 1917
2 LS-1619 Eleventh st, O Oakd 8017
- Rees, Charles William Logan, Utah
B.S. (Agricultural College of Utah) 1913
2 LS-Morrill apts Bkly 4812W
- Reeves, Walter Seaton Santa Ana
B.S. (Pomona College) 1915
11 Agr-2237 Durant av
- Rehflach, Carol Berkeley
A.B. 1915; J.D. 1917
13 LS-Hotel Whitecotton Bkly 7300
- Reinecke, Johann Alexander Cape Town, South Africa
A.B. (University of Good Hope) 1912
11 Agr-2428 Bancroft way Bkly 3034
- Reinhart, Milton Joseph Elko, Nevada
A.B. 1917
1 Juris-2400 Durant av Bkly 7954
- Reinsch, Frank Herman Lincoln, Nebraska
A.B. 1909 and M.A. 1912 (University
of Nebraska; cand. Ph.D. (German))
2 LS-58 Panoramic way
- Rhodes, Thaddeus Hugh Toulon, Ill.
A.B. (Oberlin College) 1893; M.A. (Har-
vard University) 1906
2 LS-5661 Oak Grove av, O Pied 4668W
- Ricciardi, Nicholas Oakland
B.L. 1907; M.L. 1908
11 LS-2054 Thirty-eighth av, O
Frwl 1999W
- Richards, Esther English Alcatraz Island
A.B. 1918
2 LS-2429 Channing way Bkly 4648
- Richardson, Florence Letitia Moscow, Idaho
A.B. (University of Idaho) 1917
1 LS-2428 College av
- Rickter, Milton Victor San Mateo
B.S. 1919
11 Agr-1552 Shattuck av
- Riess, Iola Gladys San Francisco
A.B. 1917; M.A. 1919
2 LS-1549 LeRoy av Bkly 8593J
- Riggs, Lulah Maria Santa Barbara
A.B. 1919
1 LS-2537 Hearst av Bkly 4971
- Riley, Carmel Berkeley
A.B. 1907
12 LS-2437 Warring st Bkly 2893
- Rippy, James Fred Nashville, Tenn.
A.B. (Southwestern University) 1913;
M.A. (Vanderbilt University) 1915;
cand. Ph.D. (history)
- 13 LS-1521 Scenic av Bkly 7977J
- Ritchey, Dixie Los Angeles
A.B. 1919
1 LS-2807 Etna st Bkly 6159
- Ritter, Paul John Los Angeles
A.B. 1919
11 LS-1757 Bush st, S F West 3321
- Roan, Everett Hale Pasadena
11 Juris-2247 Dwight way Bkly 128
- †Roberts, Elizabeth Ellinwood Salinas
A.B. (Western Reserve University) 1905
2 LS-Box 406, Salinas
- Robinson, Bertha Louise Berkeley
A.B. 1919
1 LS-2738 Garber st Bkly 4637W
- Robinson, Webster R. Los Angeles
A.B. 1919
11 LS-2211A Telegraph av
- Rocca, Helen Mitchell Middletown
A.B. 1919
1 LS-2226 Chapel st Bkly 879
- Roddy, Marguerite Gertrude San Francisco
A.B. 1919
1 LS-2112 Howard st, S F Park 2062
- Roesman, Thomas Jefferson Boonville
A.B. (Stanford University) 1900
11 LS-860 Arlington st, O
- Rohr, Carl Samuel Watsonville
B.S. 1919; John W. Mackay, Jr. Fellow
1 Mee-2305 Bancroft way Bkly 7461
- Rohwer, Claude Dixon
A.B. 1918; cand. J.D.
3 Juris-2200 Piedmont av Bkly 6601

- Roney, Nelle San Diego
A.B. 1914
*1 LS-435 Staten av, O Oakd 5487
- Rose, Anna May Wallace, Idaho
A.B. 1919
1 LS-122 Panoramic way
- Rose, Jessie Frances Evanston, Ill.
A.B. (Northwestern University) 1913
*1 LS-58 Panoramic way Bkly 5866J
- Rosenkrantz, Stanislaus Kurt Berkeley
A.B. 1916; M.A. 1917
3 LS-2116 Bancroft way Bkly 8859W
- Ross, Albert Frederick Redding
A.B. 1917
1 Juris-Oxford apts Bkly-9380J
- Ross, Felix Bruno Palo Alto
A.B. (Buena Vista College) 1911; M.A.
(University of Iowa) 1913
*1 LS-2814 Russell st Bkly 1667J
- Ross, Ione Ella Pomona
A.B. (Pomona College) 1919
1 LS-2628 Durant av Bkly 4772
- Rothman, Theodore Los Angeles
B.S. 1917
*2 Chem-2248 Telegraph av Bkly 9011
- Rothrock, Ruth Athena, Ore.
A.B. (University of Oregon) 1913
1 LS-2643½ Channing way Bkly 7877J
- Rouse, Elizabeth Bedinger Bakersfield
A.B. (University of Kentucky) 1913
*1 LS-1947 Oregon st
- Rowell, Hannah Warner San Francisco
B.S. 1916
2 Agr-2415 California st Bkly 7819W
- Ruedrick, Paul Berkeley
A.B. 1919
*1 LS-1529 McGee st Bkly 9155J
- Runckel, Chris, Jr. Berkeley
A.B. 1919
*1 LS-2812 Rose ter Bkly 8080J
- Russell, Margaret Helen Denver, Colorado
A.B. (Smith College) 1911
2 LS-2717 Forest av Bkly 2081W
- Sadickoff, Minnie Eline San Francisco
A.B. (University of Southern California)
1916
*2 Med-2520 Cedar st Bkly 1444
- Sagen, George Oliver Princeton
A.B. 1917
1 LS-2419 Durant av Bkly 9149
- Saito, Saburo San Francisco
A.B. 1915
*2 LS-2410 Fulton st
- Sandberg, Clarence Harold Berkeley
B.S. (University of Idaho) 1918
1 Chem-2336 College av Bkly 2431
- Sanderson, Alice Hobbs Berkeley
A.B. 1919
1 LS-2415 Regal rd Bkly 7589W
- Sanderson, Lemuel Dalton Berkeley
A.B. 1919
2 Juris-1441 Bonita av Bkly 5016W
- Savannah, Edward Jack Seattle, Wn.
A.B. 1919
*1 Chem-2435 Haste st Bkly 1980
- Sawyer, Eleanor Ecob San Francisco
A.B. (Bryn Mawr College) 1907
*1 LS-Hotel Victoria, S F Grfd 2080
- Sawyer, Henry Albert Riverside
A.B. 1917
2 LS-83 Shasta st Bkly 6878W
- Schacht, Frank Henry Anaheim
A.B. 1919
1 LS-2516 Bancroft way Bkly 2277J
- Schapiro, Esmond San Francisco
A.B. 1918; cand. J.D.
3 Juris-2214 Dana st Bkly 5088W
- Scherer, Norman William Oakland
B.S. 1911 and M.S.F. 1914 (University
of Michigan) cand. Ph.D. (forestry)
1 Agr-1526 Arch st
- Schieck, Helen Louise Berkeley
A.B. 1919
1 LS-2627 Haste st Bkly 906W
- Schilling, Walker San Francisco
A.B. 1919
1 LS-2251 College av Bkly 9107
- Schleef, Caroline Berkeley
A.B. 1913
1 LS-2238 Durant av Bkly 7929
- Schlingheyde, Leslie Bernard Berkeley
A.B. 1918; Sheffield Sanborn Scholar in
the School of Jurisprudence; cand.
J.D.
3 Juris-1332 Oxford st Bkly 7464
- Schmiedel, Oscar Atascadero
B.S. 1886 and M.A. 1888 (Bethany Col-
lege)
*2 LS-2525 Cedar st
- Schneider, Erma Lillian Cincinnati, Ohio
A.B. (University of Cincinnati) 1918
*1 LS-2639 College av Bkly 5140J
- Schoch, Frank B. Pasadena
B.S. (Pennsylvania State College) 1909
*1 LS-1811 Vine st
- Schwalbach, Amelia O. Riverside
A.B. 1919
*1 LS-Oxford apts Bkly 1370J
- Schwalbach, Flora E. Riverside
A.B. 1919
*1 LS-Oxford apts Bkly 1370J

Schwartz, Abraham B.S. (Pennsylvania State College) 1913 12 Chem-Canyon rd Bkly 7100; Local 141	San Francisco	Sherburne, Edith A.B. 1919 1 LS-2707 Channing way Sherman, Doris Margaret A.B. 1919 1 LS-1425 Harrison st, O Shewman, Pearl Alberta A.B. 1919 1 LS-2511 Dwight way Shipman, Marguerite A.B. 1919 2 Juris-2682 Parker st Siao, Shun Ching Yusin, Kiangsi, China L.L.B. (Pekin Government University) 1911 3 LS-2206 Atherton way Sievart, Leo Ellsworth A.B. (University of Redlands) 1919 11 Juris-2320 Bancroft way Siler, Fay A.B. 1919 11 LS-2312 Channing way Silverman, Alice Pauline A.B. 1918 2 LS-1549 LeRoy av Simpson, Helen Karr A.B. (Vassar College) 1918; M.A. 1919 12 LS-2527 Hearst av Simpson, Miriam Elizabeth A.B. 1915; M.A. 1916 2 Med-100 Judah st, S F Singh, Rajandra A.B. (University of Wyoming) 1918 11 LS-1731 Allston way Singh, Singh Pordaman Ludhiawa, Punjab, India A.B. (University of Utah) 1918; M.A. (University of Kansas) 1919 2 LS-1731 Allston way Sisler, Della Jarrett B.L.S. (University of Illinois) 1905 12 LS-2327 Cedar st Sittig, Esther Hale A.B. 1919 11 Juris-1216 Oxford st Sittman, Penelope B.L. 1911 8 LS-1556 LeRoy av Skelton, Leonard William A.B. 1919 1 Med-2248 Telegraph av Slater, Eva Emma A.B. 1918 11 LS-2304 Telegraph av Slaven, Thomas William A.B. 1917 8 Juris-2500 Durant av	San Jose Bkly 5700 Oakland Lksd 1900 Berkeley Bkly 7079W Berkeley Bkly 577J Yusin, Kiangsi, China Bkly 4208J Alhambra Bkly 4676 San Diego Bkly 6041W San Francisco Bkly 8593W Paris, France 1918; M.A. 1919 Sebastopol Snt 1272 Laramie, Wyo. 1918 Bkly 1074J Berkeley Bkly 4074 Pasadena Bkly 9011 Santa Rosa Bkly 3428 Sacramento Bkly 8554J
Scofield, Richard Henry A.B. 1919 1 LS-1042 Sierra st §Scott, Lois Josepha A.B. (Drake University) 1914 2 LS-2632 Durant av †Searight, Helen Fitzjames A.B. (Smith College) 1912 12 LS-234 Elm st, San Mateo Sellander, Amelia B.L. 1905 11 LS-Townsend apts, O Seward, Raymond Sanford B.S. (Pomona College) 1912 12 LS-1815 Central av, A Sewell, Edward Granville A.B. 1919 11 LS-2115b Durant av Seymour, Harry Boyd A.B. 1917 1 Juris-2529 Hearst av Shaffer, Esther Marie A.B. 1919 1 LS-2641½ Channing way Shane, Charles Donald A.B. 1915; cand. Ph.D. (astrophysics) 12 LS-Lick Observatory, Mt. Hamilton †Shapiro, Aaron David B.S. 1915; M.S. 1916; cand. Ph.D. (rural institutions) 12 LS-R. 2, Box 95, Petaluma Sharp, Joseph A.B. 1918 2 Juris-2334 Durant av Sharpless, Katherine Cromwell A.B. 1918 1 LS-2739 Bancroft way Shaw, Dorothy Pierpont A.B. (Boston University) 1919 1 LS-2400 Piedmont av Shaw, Hazel Marie B.S. (University of Missouri) 1917 11 LS-2429 Channing way Shay, Eula Barber A.B. (University of Southern California) 1919 11 LS-2239 Dwight way Shelley, Percy Norman B.S. (Utah Agricultural College) 1914 1 Agr-2034 Virginia st Shepardson, Marin Jameson A.B. 1917 11 LS-2119 Eagle av, A	Los Angeles Bkly 2281W Des Moines, Iowa Bkly 5187 New York, N. Y. SM 287 East Oakland Lksd 1687 Long Beach Ala 1089J Santa Rosa Bkly 7098J Sacramento Bkly 40 Marysville Bkly 2276J Oakland Bkly 3485 Perris Bkly 204 Hollywood Bkly 5224 Pasadena Bkly 4648 Los Angeles Bkly 7762J Midvale, Utah 1914 Berkeley Ala 1824		

§ In residence first half-year; in absence second half-year.

- Smith, Dorothy Louise Pomona
B.S. 1915
*1 LS-2434 Channing way Bkly 5957
- Smith, Hazel Murphy Montana
A.B. 1917
*1 LS-2245 Hearst av Bkly 6066W
- Smith, Helen Janet Etna Mills
A.B. 1919
1 LS-2525 Dwight way Bkly 477
- Smith, John Walter Oakland
A.B. 1919
1 Agr-University Farm, Davis
- Smith, Julian Francis Buffalo, N. Y.
B.S. (University of Illinois) 1918
1 Chem-2001 Allston way Bkly 6710
- Smith, Mildred Marie San Francisco
A.B. 1919
*1 LS-8891 Clay st, S F Pac 4427
- Smith, Sydney Kinnear Vallejo
A.B. 1918
*1 LS-1838 Arch st Bkly 8375J
- Smith, Wallace P. V. Kingsburg
A.B. 1919
*1 LS-2500 Dana st Bkly 3296W
- Smyrl, Elizabeth El Paso, Texas
A.B. (Southwestern University) 1916
*1 LS-2639 College av Bkly 5140J
- Smyth, Francis Scott Portland, Ore.
A.B. 1917
*1 Med-1898 Fifth av, S F
- Smyth, Robert Lacy Berkeley
A.B. 1917
1 LS-2509 Hearst av Bkly 1151W
- Snader, Fayanna Marie Santa Ana
A.B. (McPherson College) 1917
*1 LS-2416 College av
- Soulé, Alta Josephine Forest Grove, Oregon
A.B. (Pacific University) 1918
*1 LS-2400 Bancroft way Bkly 6488J
- Spence, Dorothy Los Angeles
A.B. 1919
*1 LS-2710 Channing way Bkly 9520
- Spencer, Eldridge Ted Berkeley
A.B. 1917
2 Arch-105 Tunnel rd Bkly 9174W
- Spencer, Helen Ward Los Angeles
A.B. 1919
2 Med-100 Judah st, S F Snst 1272
- Spicer, Florence A. South Pasadena
A.B. (Whittier College) 1919
*1 LS-2627 Hearst av Bkly 3229
- Spicer, Morgan Vardry Laramie, Wyo.
A.B. (University of Wyoming) 1917
2 Juris-1584 LeRoy av Bkly 6866J
- Spiera, Katherine Riverside
B.L. 1914
*2 LS-661 North Berendo st, Los Angeles
- Spitler, Gladys Mayne Lindsay
A.B. 1919
1 LS-2457 Webster st Bkly 3807W
- Spofford, Eldon Battles Berkeley
A.B. 1918
3 Juris-2400 Dwight way Bkly 6504
- Spofford, Pearl C. Berkeley
A.B. 1917
*2 LS-2400 Dwight way
- Squire, Marguerite Oakland
A.B. 1919
1 LS-5212 Miles av, O Pied 8011W
- Stannard, Amy Nivison Ashland, Oregon
A.B. 1918
2 Med-1055 Fell st, S F
- Stanton, Florence Belle Warren, Ill.
B.L. (University of Wisconsin) 1900;
M.L. 1914
- *3 LS-2829 Channing way
- Stanton, Lucy Agnes Los Angeles
A.B. 1919
1 LS-2300 Durant av Bkly 8471W
- Stearns, Grace Coues Holtville
A.B. 1919
1 LS-2509 College av Bkly 7344J
- Steed, Daniel Victor Los Angeles
A.B. (University of Southern California)
1914
3 LS-1235 Grove st Bkly 7826J
- Steel, Carolyn Berkeley
A.B. 1919
1 LS-Treehaven apts Bkly 8899J
- Steffes, Anna Louise San Diego
A.B. (Columbia University) 1910
*1 LS-2550 Pine st, S F Fmr 2210
- Stegman, Mildred Lola Oakland
A.B. 1919
1 LS-1308 Adeline st, O Lksd 2495
- Stellar, Robert Woodley Eagle Rock City
B.S. (Occidental College) 1919
1 Med-2235 Chapel st Bkly 2928W
- Stephenson, Ruth Berkeley
A.B. 1919
*1 LS-2520 Haste st Bkly 2463
- Stevens, Ida May Napa
A.B. 1915; M.A. 1916
*7 LS-2650 Parker st Bkly 5094J
- Stewart, George Rippey, Jr. Pasadena
A.B. (Princeton University) 1917
1 LS-2001 Allston way Bkly 6710
- Stewart, George Stirling Exeter
A.B. 1918
1 LS-2442 Haste st Bkly 5418
- Stillinger, Nettie Mae Spokane, Washington
A.B. (University of Idaho) 1914
1 LS-2015 Delaware st Bkly 5713W
- Stilwell, Joseph Warren Yonkers, N. Y.
Graduate (United States Military Acad-
emy) 1904
1 LS-1540 Milvia st Bkly 6587W
- Stockton, Frank Mesilla Park, N. M.
A.B. (University of Nebraska) 1907
3 LS-2012 Berkeley way Bkly 2172J

- Stone, William Herschel San Francisco
A.B. (Indiana University) 1918
*1 LS-404 St. Dunston apts, S F
Frkn 323
- Story, Harold Hadley Berkeley
A.B. (Whittier College) 1916
*1 LS-561 Lexington st, El Cerrito
- Strain, Clara Viola Berkeley
A.B. 1919
*1 LS-Hotel Claremont Bkly 3900
- Sturges, Helen Hope Claremont
A.B. (Pomona College) 1917
1 LS-2333 Channing way Bkly 3215
- Sturm, Marthe Paris, France
B. ès L. 1916 and L. ès L. 1918 (Sorbonne)
*1 LS-1629 Euclid av
- Suydam, Lillian Alameda
A.B. 1919
*1 LS-2709 Channing way Bkly 8528
- Swan, Beatrice Frances Oakland
A.B. 1919
1 LS-2934 West st, O Oakd 4574
- Swanson, Christine Elizabeth Des Moines, Iowa
A.B. (Grinnell College) 1914
*1 LS-2531 Ridge rd Bkly 7066
- Swanson, Jane Evelyn Des Moines, Iowa
A.B. (Grinnell College) 1918
*1 LS-2531 Ridge rd Bkly 7066
- Swanson, Mildred V. Eureka
A.B. 1919
1 LS-2821 Bancroft way Bkly 1765
- Swearingen, Orpha Gladys San Francisco
A.B. (University of Kansas) 1917
1 LS-2428 Channing way
- Sweetser, Kathryn Lydia Santa Barbara
A.B. 1917
*1 LS-1700 Euclid av Bkly 6789
- Swenson, Carl Leonard Little River, Kansas
A.B. (Bethany College) 1912
*2 LS-2418 Ellsworth st Bkly 6155W
- Taggart, Thomas Lyle Long Beach
A.B. (Queen's University) 1912
1 CE-1548 LeRoy av Bkly 5344J
- Taliaferro, Nicholas Lloyd Redlands
B.S. 1913; cand. Ph.D. (economic geology)
4 LS-Faculty Club, Campus Bkly 2855
- Tasker, Homer Gold Portland, Oregon
A.B. (Willamette University) 1919
1 LS-1745 Lincoln av
- Taylor, Lacy Price Oakland
A.B. (University of Missouri) 1910
*1 LS-2215 Thirty-fourth av, O
- †Taylor, Paul Bellville Berkeley
A.B. 1913
*3 LS-U. S. Bureau of Mines, Pittsburgh, Pa.
- Taylor, Paul Schuster Sioux City, Ia.
A.B. (University of Wisconsin) 1917
1 LS-2815 Channing way Bkly 6483
- Teed, Mabel Utley Alamogordo, N. M.
A.B. 1919
*1 LS-2524 LeConte av Bkly 2531
- Tenny, Edward Vernon Berkeley
A.B. 1919
1 Mec-2536 Etna st Bkly 7485W
- Theron, Jacobus Johannes Pretoria, South Africa
B.S. (University of South Africa) 1918;
cand. Ph.D. (agricultural chemistry)
1 Agr-2203 Atherton st
- Thiriot, George Milton Oakland
A.B. (Stanford University) 1905
*1 LS-2841 Valley st, O Oakd 4765
- Thomas, James Rolla Salt Lake City, Utah
A.B. 1918; Willard Dawson Thompson
Memorial Scholar in Philosophy
1 Juris-918 Inyo st
- Thomas, Jessie Elisabeth Gilroy
A.B. 1917
*2 LS-2721 Channing way Bkly 808
- Thomas, Louise Keeney Los Angeles
A.B. 1917
*1 LS-2539 Durant av Bkly 8808
- Thompson, Charles Goodwin Blair, Wisconsin
A.B. (University of Wisconsin) 1911
2 LS-2248 Telegraph av Bkly 9011
- Thompson, Leila Lasley Portland, Ore.
A.B. 1915
*1 LS-1512 Oxford st Bkly 3201J
- Thompson, Mildred Bentley Oakland
A.B. 1917
2 LS-1050 Green st, S F Pspt 122
- Thorne, George Webber Pacific Grove
A.B. (Occidental College) 1916
1 LS-1820 Sixty-second st Pied 8155J
- Thorpe, Helen Gertrude Morganville, Kans.
A.B. (University of Kansas) 1916
*1 LS-2531 Ridge rd Bkly 2531
- Thurber, Francis Henry Pullman, Wn.
A.B. (Laurence College) 1913; M.A.
(University of Nebraska) 1915
1 Chem-2617 Haste st Bkly 2965
- Thurston, Samuel Royal Berkeley
B.S. (University of Oregon) 1903
*1 Agr-1525 Edith st
- Thwing, Miltons Myrtle East Oakland
A.B. 1918
2 LS-1067 Clarendon crescent, O
Oakd 7244

- Tidmarsh, Florence Bessie San Jose
 A.B. (College of the Pacific) 1919
 '1 LS-129 Haight st, S F Park 4841
- Tidmarsh, Harriet May San Jose
 A.B. (College of the Pacific) 1917
 '1 LS-129 Haight st, S F Park 4841
- Tilton, Marion San Bernardino
 A.B. 1919
 '1 LS-2416 College av Bkly 8476J
- Todd, Sarah Colt Oakland
 A.B. 1915
 '1 LS-2005 Rose st Bkly 9460W
- Tommasini, Maria Teresa
 Lanciano, Chieti, Italy
 A.B. 1919
 2 LS-1629 Euclid av Bkly 2094W
- Torrey, Frances Ansley Berkeley
 A.B. 1915
 2 Med-100 Judah st, S F Snst 1272
- Tostenson, Frederick Oscar Le Grande, Ia.
 B.S. (Haverford College) 1911; M.A. 1917
 1 LS-2536 Bancroft way Bkly 7997
- Tracy, Dorothy Wilmerding Sacramento
 A.B. 1918
 '2 LS-2228 Channing way Bkly 3330J
- Trask, Parker Davies Oakland
 A.B. (University of Texas) 1917
 '3 LS and 2 Med-1502 Alice st, O Oakd 8205
- Trotter, Robert Thackwell Walsh, Alberta
 A.B. 1919; University Fellow in Research Medicine
 1 Med-2826 Garber st Bkly 3058
- Trueblood, Jessie Newsom Oakland
 B.L. 1915
 '2 LS-3114 Eton av Pied 1572W
- Trumpler, Robert Switzerland
 Ph.D. (Göttingen) 1910
 '1 LS-Lick Observatory, Mt. Hamilton
- Turck, Arthur William Anaheim
 A.B. 1919
 '1 LS-2200 Piedmont av Bkly 6681
- Turner, Anna Fresno
 A.B. (Pomona College) 1913; M.S. 1914
 '2 LS-2502 Bancroft way Bkly 1848
- Turner, Harold Sumner Santa Cruz
 A.B. 1917
 1 LS-1829 Walnut st Bkly 5231W
- Turner, Katherine Smith Berkeley
 A.B. 1904
 '3 LS-2707 Virginia st Bkly 7896
- Turner Laura Lucile Anaheim
 B.L. 1902
 1 LS-2500 Dana st Bkly 3296W
- Twilight, Edmund Henry Fresno
 B. es Sc (University of France) 1891;
 Ingenieur Agricole (Ecole Nationale d'Agriculture) 1894
 '3 Agr-201 Effe st, Fresno 3975J
- Ueland, Edith Roseburg, Oregon
 A.B. 1918
 2 LS-Euclid apts
- Uhl, Kenneth George Visalia
 A.B. 1919
 1 Juris-Faculty Club Bkly 2855
- Underhill, Grace Partridge Berkeley
 A.B. 1915
 '2 LS-2618½ College av Bkly 6176W
- Underhill, Mary Pence San Francisco
 A.B. 1910; M.A. 1911
 2 LS-2485 Russell st Bkly 7975W
- †Unna, Sarah San Francisco
 A.B. 1918; Bertha Henicke Taussig Memorial Scholar in Philosophy
 '2 LS-Columbia University, New York, N.Y.
- Uren, Dorothy May Oakland
 A.B. 1919
 1 LS-1301 Fifty-first av, O Frvl 656J
- †Urner, Catherine Murphy Berkeley
 A.B. (Miami University) 1912; George Ladd Prix de Paris in Music
 '3 LS-Paris Conservatory of Music, Paris, France
- Urner, Christine Berkeley
 A.B. 1919
 1 LS-1700 Walnut st Bkly 6453
- Urquhart, Jean Graham Riverside
 A.B. (Occidental College) 1918
 2 LS-2531 Channing way Bkly 7068W
- †Utter, Elsie Brockam Des Moines, Ia.
 Ph.B. (Drake University) 1913
 '2 LS-Modesto
- Van Arsdale, Reba Josephine South Pasadena
 A.B. 1919
 '1 LS-2228 Chapel st
- Vandergrift, Rolland A. Chico
 A.B. 1917; Native Sons Fellow
 1 LS-2502 Bancroft way Bkly 1848
- Vandervoort, Ray Los Angeles
 A.B. 1918
 1 Juris-2438 Durant av Bkly 8757W
- Vanleer, Blake Ragsdale Berkeley
 B.S. (Purdue University) 1915
 2 Mec-2218 Durant av Bkly 1934W
- Van Norman, Louina Margaret Los Angeles
 A.B. (University of Wisconsin) 1915
 '1 LS-2449 Webster st Bkly 2849J
- Van Nostrand, Frances M. Berkeley
 A.B. 1910 and M.A. (Stanford University) 1911
 6 LS-2539 Durant av Bkly 5945
- Van Nostrand, John James, Jr. Berkeley
 A.B. (University of Chicago) 1905; M.A. (Stanford University) 1911; Ph.D. 1915
 6 LS-2539 Durant av Bkly 5945

- Van Polen, Herman Cortez, Colo.
A.B. (University of Denver) 1916
*1 LS-2226 Haate st Bkly 4227W
- Vansell, George Haymaker Lexington, Ky.
A.B. 1915 and M.A. 1917 (University of
Kansas)
1 Agr-2001 Channing way Bkly 815
- Vecki, Morrell Emeric San Francisco
Cand. A.B. May 1920 (work completed
Dec., 1919)
*1 LS-312 Arguello blvd, S F Pac 2894
- Vernon, Vada Viola Berkeley
A.B. 1919
*1 LS-2900 Russell st Bkly 1382J
- Vollmer, Harry Berkeley
A.B. (Yale University) 1915
*1 LS-2102 Allston way
- Voorhees, Glenn Lavar Mantli, Utah
B.S. (Utah Agricultural College) 1916
*1 LS-2538 Channing way Bkly 6201J
- Voorhees, Marietta Oakland
A.B. 1917
8 LS-1580 LeRoy av Bkly 7967J
- Wadsworth, Gladys Fern Los Angeles
A.B. (University of Southern California)
1919
1 LS-1720 Oxford st Bkly 6114W
- Wagenet, Portia Faye Oakland
A.B. 1919
*1 LS-2428 E Twenty-third st, O
Frwl 729
- Wagener, Willis Westlake Ceres
A.B. (Stanford University) 1917
1 Agr-1815 Berkeley way Bkly 5717
- Wagner, Elizabeth Berkeley
A.B. (University of Oregon) 1913
*3 LS-2604 Etna st Bkly 5602
- Wagner, Elizabeth Dorothea San Jose
A.B. (Stanford University) 1916
*1 LS-2550 Haate st Bkly 5118W
- Wagner, Emily Mercedes Berkeley
B.L. 1910
*1 LS-2328 Roosevelt av Bkly 7282W
- Waibel, William Clyde Piedmont
A.B. 1919
1 LS-859 Arlington av Bkly 6935
- Walker, Jean Visalia
A.B. 1917
3 LS-5 Alta Vista, Russian Hill, S F
Papt 4236
- Walther, Elmer Curt Arcata
A.B. (University of Cincinnati) 1912
*1 LS-1915 University av Bkly 7276
- Walton, Eda Lou Berkeley
A.B. 1918; cand. Ph.D. (English)
2 LS-2947 Magnolia av Bkly 7846W
- Walton, Wilma Sanger
A.B. 1919
1 LS-Euclid apts Bkly 6644
- Wang, Hwa New York, N. Y.
A.B. (Government University of Pekin);
M.S. (Columbia University) 1919
*1 Com-1928 Francisco st
- Wansch, Annetta Barbara Berkeley
A.B. 1919
1 LS-1509 Grove st
- Ward, Agnes Dolores Vallejo
A.B. 1919
2 Med-2702 Fulton st Bkly 1867J
- Ward, Robertson Los Angeles
A.B. 1919
*1 Med-2601 Channing way Bkly 5904
- Ward, Rose Alta Los Angeles
A.B. 1919
*1 LS-2406 Bancroft way Bkly 6428
- Warren, Stafford L. San Francisco
A.B. 1918
*1 Med-737 Bush st, S F
- Washburn, John Barron Berkeley
A.B. (Whitman College) 1910
2 LS-2536 Regent st Bkly 4041J
- Waste, William Ewing Berkeley
A.B. 1919
*1 LS-2717 Hearst av Bkly 5770
- Watson, Allan Raymond Eureka
A.B. 1918
1 Med-2627 Ridge rd Bkly 2541
- Watson, Helen Sarah Los Angeles
B.S. 1902
*1 LS-600 Bush st, S F Grid 650
- Watta, Arthur Pryor Los Angeles
A.B. (Occidental College) 1914; M.A.
1916; LeConte Memorial Fellow in His-
tory; cand. Ph.D. (history)
*3 LS-Oxford University, England
- Webster, Nancy Emma San Bernardino
A.B. (University of Illinois) 1900
1 LS-2229 Chapel st Bkly 1642
- Weeks, Leona Ellen Berkeley
A.B. 1919
1 LS-2601 Parker st Bkly 7438J
- Weideman, Charles Conrad Florin
A.B. (College of the Pacific) 1917
*2 LS-2327 Dwight way Bkly 3334
- Weil, Alita Sacramento
A.B. (Stanford University) 1920
*1 LS-2714 Ridge rd Bkly 9093
- Weise, Joseph Harold Glen Elva
A.B. 1918
2 Juris-2519 College av Bkly 2657
- Weisser, Alice Mae Oakland
A.B. 1919
1 LS-1783 Ninth av, O Mer 4528
- Welch, Elwyn H. Pomona
A.B. (Pomona College) 1918
1 Med-2717 Haate st Bkly 586
- Wells, Earl Willson Los Angeles
A.B. 1919
1 Med-2233 Ellsworth st Bkly 293W

- Wendt, Gustav Henry Sacramento
B.S. 1916
*1 Agr-2425 LeConte av Bkly 4834
- Wesolo, James Oakland
A.B. 1919
*2 Juris-122 E Eleventh st, O Mer 2289
- West, Alma Rowell Fresno
B.S. (Beloit College) 1911
1 LS-U. C. Cottage No. 4
- Westberg, Edwin L. Alhambra
A.B. 1918
*1 LS-2616 Virginia st Bkly 6716
- Wheaton, Dorothy Swanell San Diego
A.B. 1918
*1 LS-315 Treehaven apts Bkly 8498W
- Wheeler, Benjamin Webb Berkeley
A.B. 1915; M.A. (Harvard University) 1916
2 LS-2425 Ridge rd Bkly 1413
- White, Essie Tobina Broderick
A.B. 1918
*1 LS-2511 Channing way Bkly 3121J
- White, Sam Kilburn, Jr. Berkeley
B.S. (Iowa State College) 1911
*1 Mec-2162 Center st
- Whittell, Florence Emma Los Angeles
A.B. 1918
2 LS-2400 Bancroft way Bkly 6488J
- Whittlesey, Harold Cruver Los Angeles
B.S. 1919
1 Min-2616 Virginia st Bkly 6716
- Whitton, Gertrude Nancy Berkeley
A.B. 1917
*2 LS-1933 Yolo av Bkly 5907J
- Whitton, John Boardman Oakland
A.B. 1916; Frank M. Pixley Scholar; cand. J.D.
3 Juris-1401 LeRoy av Bkly 72
- Wickson, Katherine Ray Berkeley
A.B. 1899
7 LS-2728 Bancroft way Bkly 3891
- Wight, Earl H. Bowling Green, Ohio
B.L. 1914
1 LS-3026 Colby st Bkly 7817J
- Wilcox, Frank Howard Pomona
A.B. 1917
1 LS-1709 La Loma av Bkly 3616J
- Wilcox, James Ernest Oakland
B.S. (Washington State College) 1912
*1 LS-2226 Haste st
- Wilcox, Sidney Warren Berkeley
B.L. 1905; B.D. (Pacific School of Religion) 1910
*2 LS-2812 Virginia st Bkly 1509J
- Wilkanasy, Mordecai Jaffa, Palestine
Engineer of the Institute of Agriculture (Toulouse, France) 1916
*1 Agr-2211 Ellsworth at Bkly 5496W
- Williams, Albert Morris Paul's Valley, Oklahoma
B.S. 1918 and M.S. 1919 (University of Oklahoma)
1 Chem-2435 Haste st Bkly 1980
- Williams, Benjamin Harrison Eugene, Ore.
A.B. 1910 and M.A. 1912 (University of Oregon)
*1 LS-2122 Bancroft way
- Williams, Harold Snook Berkeley
A.B. 1919
1 Min-2412 Piedmont av Bkly 5098
- Williams, Mary Floyd Berkeley
B.L. 1918; Ph.D. 1919
6 LS-2722 Bancroft way Bkly 4170
- Williams, Rutha Delma Lancaster
A.B. 1919
1 LS-2531 Ridge rd Bkly 7086
- Williamson, Myrtle Jean Berkeley
A.B. 1916
*2 LS-2502 Bancroft way Bkly 1848
- Wilson, Icie Alice Saratoga
A.B. 1919
*1 LS-2201 Ellsworth st Bkly 6037W
- Wilson, Paul Lathrop Garrettsville, Ohio
A.B. (Hiram College) 1906
3 LS-2612 Dana st
- Winkler, Albert Julius Berkeley
A.B. (University of Texas) 1918; M.A. (University of Missouri) 1918
1 Agr-2400 Dwight way Bkly 3358W
- Winstead, Thomas Carroll Napa
A.B. 1919
*1 LS-Elks Club Bkly 1002
- Winter, Gilbert Hosmer Berkeley
B.S. 1919
*1 Com-2417 Bancroft way Bkly 1445
- Wisner, Francis Preston Seattle, Wn.
A.B. 1919
2 Med-1281 Second av, S F Snt 623
- Witten, Beryl Lewis Crows Landing
A.B. 1918
1 LS-2500 Durant av Bkly 1157W
- Woehr, Charles Dorman Redlands
Cand. A.B. May 1920 (work completed Dec., 1919)
*1 Juris-747 Alcatraz av, O Pied 3208J
- Wolfe, Clyde Lynne Earle Los Angeles
B.S. 1906 and M.S. 1907 (Occidental College); M.A. (Harvard University) 1908; Ph.D. 1919
*3 LS-1509 Arch st Bkly 7459J
- Wong, Bing Chin Sacramento
A.B. 1917; M.A. 1919
2 LS-1917 Addison st Bkly 5779W
- Wong, Hisheng Canton, China
A.B. (University of Washington) 1919
*1 LS-2504 Regent st

Wood, Annabelle Muriel	Berkeley	Wyckoff, Stephen Nicholas	Berkeley
A.B. 1919		B.S. 1914	
1 LS-1422 Grove st	Bkly 8076J	²¹ LS-18 Alvarado rd	Bkly 8907J
Wood, George Joseph	St. Tulare	Wyman, Zoe Hermle	Oakland
A.B. 1919		A.B. 1918	
²¹ Med-2122 Bancroft way	Bkly 5695W	²² LS-3128 Telegraph av, O	Pied 1596W
Wood, Irving William	Oakland	Wythe, Alice Belle	Oakland
A.B. (University of Wisconsin) 1917		B.L. 1902	
2 Juria-641 Fifty-sixth st, O	Pied 5473J	²¹ LS-4247 Terrace st, O	
Wood, Muriel	Berkeley	Yates, Dorothy M. Hazeltine	Oakland
A.B. 1919		A.B. (Wellesley College) 1910; M.A.	
1 LS-2228 Parker st	Bkly 1938J	1919	
Wood, Pauline	Modesto	2 LS-6120 Lawton av, O	Pied 4396J
A.B. 1919		Yates, Edna Louise	Oakland
²¹ LS-2714 Ridge rd	Bkly 9093	B.L. 1912; M.A. (Columbia University)	
Woodcock, Alice Harris	Eureka	1914	
A.B. 1919		3 LS-1023 Magnolia st, O	Lksd 4241
²¹ LS-1651 Market st, S F	Mrkt 296	Yerkes, Nancy	Hollywood
Woodford, Alfred Oswald	Claremont	A.B. 1919	
A.B. (Pomona College) 1918; cand.		1 LS-2116 Channing way	Bkly 8680
Ph.D. (geology)		Yesberg, Florence Ingrid	Los Angeles
3 LS-2237 Durant av		A.B. 1919	
Woodin, Hilda Benicia	Berkeley	1 LS-2306 Virginia st	Bkly 4559
A.B. 1917 and M.A. (Columbia University) 1919		Young, Frances Lowell	Oakland
²² LS-145 Shasta st		A.B. 1916; M.A. 1919	
Woodruff, Margaret Swan	San Francisco	3 LS-2335 Haste st	Bkly 5707W
A.B. (Washburn College) 1912		Yulich, Max	Fort Bragg
2 LS-R. F. D. No. 1, Sausalito		A.B. 1916; M.A. 1919	
Woodruff, Regina	Berkeley	3 LS-2385 Haste st	Bkly 5707W
A.B. (University of Kansas) 1912; M.A.		Zavala, Manuel L.	Tarapaca, Peru
1918; cand. Ph.D. (zoology)		B.S. 1918	
3 LS-2514 College av	Bkly 5146J	2 Chem-1256 Clay st, S F	Pspt 4343
Woodward, Hugh McCurdy		Zensen, Minnie Mae	Los Angeles
	St. George, Utah	A.B. (University of Southern California)	
A.B. (Brigham Young University) 1911;		1919	
M.A. (University of Utah) 1918; cand.		1 LS-2008 Shattuck av	Bkly 5135
Ph.D. (education)		Zumbro, Francyl Reseda	Riverside
2 LS-2329 Fulton st		A.B. 1918	
Woolkey, Zoe Larkins	Visalia	1 LS-2900 Russell st	Bkly 1382J
A.B. (Stanford University) 1904		Zumbro, Hazel Corrione	Riverside
²¹ LS-2329 Webster st	Bkly 2751J	A.B. 1918	
Wright, Whitney Braymer	Camden, N. J.	1 LS-2900 Russell st	Bkly 1382J
A.B. 1919		Zumbro, Olive Juanita	Riverside
²¹ Min-2516B Ridge rd	Bkly 5313	A.B. 1919	
†Wright, William Harcastle	Berkeley	1 LS-2900 Russell st	Bkly 1382J
B.S. 1917		Zumwalt, Edgar Willis	Sacramento
²¹ LS-2516 Bancroft way		A.B. 1918	
		²¹ LS-1338 Shattuck av	

2. UNDERGRADUATE STUDENTS

Abashidze, Nicolai Labrentievich	Harbin, Manchuria	Alameda
²¹ Agr-2642 Bancroft way	Bkly 653	Bkly 6504
Abbott, Marian Redington	Berkeley	Lodi
¹¹ LS-2634 Grant st	Bkly 4624W	
Abbott, Marion Frambes	Pasadena	Bkly 5648J
3 LS-2526 Hilgard av	Bkly 1441	Boise, Idaho
Abbott, Tirey Casselman	San Francisco	Bkly 2456J
¹² Agr-2717 Hearst av	Bkly 5770	Hoquiam, Wn.
Abelgas, Irene Calapan Mindoso, P. I.		Bkly 5964
^{11s} LS-1278 Fourth av, S F	Snst 716	Piedmont
Abercrombie, Donald LeBon	Tulare	Pied 2406
²⁴ Com-2500 College av	Bkly 5942	Los Angeles
Abernethy Raymond Joseph	Oakland	
3 Chem-597 Thirty-second st, O		
	Pied 4621	
Ablang, Primitovo Fermin Santa Lucia, P.I.		
1 Agr-483 Powell st, S F	Dgls 2001	
Aboitis, Luis	Manila, P. I.	
1 Chem-2434 California st	Bkly 2896	
Abrahamson, Hulda S.	Oakland	
3 LS PreA-41 Yosemite av, O		
	Pied 4474J	
Abrams, Gabriel	San Anselmo	
¹¹ LS PreM-San Anselmo	S.A. 216	
Abrott, Andrew Lloyd	Danville	
3 LS and 1 Juris-2501 Ridge rd		
	Bkly 1835	
Abrott, Loralie Eleanor	Danville	
1 LS-2815 Dwight way	Bkly 4026	
Achenbach, Louis William	Riverside	
4 LS and 1 Med-1711 Euclid av		
	Bkly 3378	
Acker, Bennett N.	Oakland	
2 LS PreL-353 Euclid av, O	Oakd 6377	
Acres, Den Marlow	Long Beach	
1 LS PreL-2421 Oregon st		
Adams, Arthur Clendennin	Oakland	
¹² LS-634 Oakland av, O	Pied 2534	
Adams, Doris Katherine	Pacific Grove	
2 LS-1747 Walnut st	Bkly 1009W	
Adams, Egbert Harrison	San Francisco	
3 LS-2330 Telegraph av	Bkly 9227	
Adams, Florence Elizabeth	Los Angeles	
¹¹ LS-2624 Virginia st	Bkly 3663	
Adams, Foster	Berkeley	
1 LS PreL-2641 Regent st	Bkly 2579J	
Adams, Frank Clifford	Victoria, B. O.	
2 CE-2616 Virginia st	Bkly 6716	
Adams, Frederick Joseph	Santa Rosa	
3 LS-2123 Kittredge st	Bkly 601	
Adams, Henry Fayette		
3 LS-2401 Durant av		
Adams, Jennie Ione		
2 LS PreL-2400 Bancroft way		
Adams, John Quincy		
¹¹ Mec-1622 Milvia st		
Adams, Marjorie Elizabeth		
¹² LS-2318 Telegraph av		
Adams, Mary Knowles		
4 LS-19 Hardwick av, P		
Adams, Maude		
(1) 2 LS-2637 Virginia st		
Adams, Mildred Wheaton		
^{3s} LS-2248 Telegraph av		
Adams, Richard Berry		
4 Chem-1730 La Loma av		
Adams, Robert McKee		
3 LS and 1 Juris-584 Forty-second st, O		
Adams, Ruth Alma		
1 LS-2627 Hearst av		
Adams, William Henry		
2 LS-2401 Durant av		
Addicott, Helen V.		
2 LS-2739 Bancroft way		
Addicott, Irwin Oliver		
2 LS-2728 Bancroft way		
Adolphson, Ada Pearl		
1 LS-2307 McGee av		
Adolphson, Lilly Francis		
3 LS-2307 McGee av		
Adriance, George Newton		
²³ LS-2248 Telegraph av		
Adsit, Elizabeth		
¹¹ LS PreM-2618 Durant av		
Adsit, Gertrude Bibber		
2 LS-2731 Regent st		
Aftergut, Milton		
¹¹ LS-159 Lake st, O		
Aguilin, Catalina		
^{11s} LS-1278 Fourth av, S F		
Ahart, Joseph Lee		
1 Com-2534 Grove st		
*Ahern, Margaret Mary		
4 LS-2627 Hearst av		
Ahlem, Clarence N.		
4 Mec-2600 Bancroft way		
Ahlem, Mildred Melvina		
4 LS-2623 Haste st		
Ahlport, Brodie Elmer		
2 LS PreL-723 Thirteenth st, O		

Ahlswede, Irving Milton	Pasadena	Alexander, William Walter	Los Angeles
2 LS-2717 Hearst av	Bkly 5770	1 Mec-1701 Euclid av	Bkly 4984W
Ahnstedt, Caleb Emanuel	Turlock	Alford, Ray M.	Lemon Grove
2 Mec-2600 Bancroft way	Bkly 1901	5 LS and 1 Juris-2625 Hearst av	Bkly 9535
Ahrens, Wilmer Verne	San Francisco	Algeo, Joseph Wesley	Sutter City
1 LS PreL-270 McAllister st, S F	Mrkt 488	1 LS PreL-2333 Ward st	Bkly 8761W
Ahtye, Wallace James	San Francisco	Ali, Mahbub	San Francisco
1 CE-2413 Fulton st		2 Mec-2026 Center st	Bkly 2796
Aicher, Frederick, Jr.	Harvey, Ill.	Alison, William Henry, Jr.	San Francisco
4 Mec-2501 Ridge rd	Bkly 1835	4 Agr-University Farm, Davis	
Aicher, John W. H.	Hollywood	Allan, Ada Louise	Berkeley
4 Agr-1730 La Loma av	Bkly 8716	1 LS PreM-1509 Alcatraz av	
Aid, Mamie	Fresno	Allan, Helen May	Nome, Alaska
14 LS-2536 Bancroft way	Bkly 7997	4 LS-2736 Derby st	Bkly 3665
Aihara, Kakichi	Stockton	Allardt, Elizabeth	Oakland
1 LS-2121 Channing way	Bkly 6546	2 LS-1041 Ardmore av, O	Oakd 5770
Ainsworth, Kenneth William	Willits	Allen, Alberta Belle	Oakland
1 LS PreL-2210 Atherton st	Bkly 4698	2 LS-5924 Keith av, O	Pied 5345J
Ainsworth, Ruth Elizabeth	Napa	Allen, Anne Maud	Alameda
1 LS-192 Ninth st, O	Oakd 3627	1 LS-2018 Central av, A	Ala 81
Aitchison, Evelyn Allen	Portland, Ore.	Allen, Donald Meredith	Vian, Okla.
1 LS-2301 Hearst av	Bkly 9447W	3 Min-2435 Haste st	Bkly 1980
Aitchison, Stanley Carlton	Mill Valley	Allen, Dorothy	Hollywood
1 Chem-208 Sunnyside av, M V	MV 105M	2 Com-5333 James av, O	Pied 4030J
Aitken, Harry Christie	Berkeley	Allen, Dorothy M.	Oakland
3 LS PreM-2313 Parker st	Bkly 6323	3 LS PreM-2715 Channing way	Bkly 2406J
Aitken, Robert Foster	Berkeley	Allen, Edith May	Burbank
2 LS-2313 Parker st	Bkly 6323	4 LS-2627 Hearst av	Bkly 4009
Ajajian, Stella	Selma	Allen, Eleanor Katherine	Berkeley
4 LS and 1 Juris-2632 Durant av	Bkly 5137W	1 LS-2317 Prospect st	Bkly 973
Ajajian, Zephyr	Selma	Allen, George Waldo	Oakland
2 Com-2632 Durant av	Bkly 5137W	1 Agr-6447 Benvenue av, O	Pied 6979J
Akerman, Lewis Sutherland	San Diego	Allen, Grace Thorne	Brawley
1 Com-2521 Hearst av	Bkly 708	2 LS-2253 Piedmont av	Bkly 5542J
Akers, Joseph Cornell	Oakland	Allen, Halsey Otis	Berkeley
2 LS PreL-4285 Gilbert st, O	Pied 6656J	1 LS-2431 College av	
Akers, Lewis Gilbert	Mill Valley	Allen, James Leslie	Oakland
2 Com-2538 Channing way	Bkly 5972	1 LS-1720 Fourteenth st, O	
Albee, Camille	Weed	Allen, John Joseph	Oakland
24 LS-1547 Euclid av	Bkly 6681	4 LS and 1 Juris-2617 Durant av	Bkly 822
Albert, Dorothea	Oakland	Allen, Leonard Matthew	Burbank
2 LS-272 Santa Rosa av, O	Pied 2357	1 LS-1304 Milvia st	Bkly 8551J
Albin, Mary Christine	Los Angeles	Allen, Lydia Jane	Petaluma
1 LS-2734 Parker st	Bkly 7735J	(1) 2 LS-2410 College av	Bkly 6656
Albrecht, Walter George	National City	Allen, Marion Angell	Oakland
1 Min-1924 Channing way		1 LS-204 Tenth av, O	Mer 3315
Alcorn, Pearl Irise	Gridley	Allen, Parker, Frederic	Berkeley
2 Com-545 Thirty-ninth st, O		2 Agr-1730 La Loma av	Bkly 8716
Alexander, Floris Sibley	Los Angeles	Allen, Ruth Parker	Los Angeles
1 Com-2627 Hearst av	Bkly 4009	(1) 3 LS-2417 LeConte av	Bkly 5650
Alexander, Helen Thompson	Hollywood	Alling, Edward Harvey, Jr.	Los Angeles
4 LS-1701 Euclid av	Bkly 4984W	1 LS-2701 Hearst av	Bkly 2421
Alexander, June Isabel	Berkeley	Allison, John Raymond	Riverside
4 LS-2213 Atherton st	Bkly 9368W	3 Chem-2435 Haste st	Bkly 1980
Alexander, Mary Clowry	Los Angeles	Allison, Warren Alexander	Chico
(1) 3 LS-1701 Euclid av	Bkly 4984W	2 Chem-2512 Dana st	

- Allorey, Hermenegilda
Lucena Tayabas, P. I.
1s LS-1278 Fourth av, S F Sst 716
- Almquist, Milton Leroy Atwater
4 Mec-2226 Haste st Bkly 4227W
- Alpen, Phyllis Victoria Sacramento
2 LS-2808 Dwight way Bkly 9277R
- Alpen, Richard Myles Sacramento
1 CE-2808 Dwight way Bkly 9277R
- Alpers, Mary Elizabeth Westfield, N. J.
18 LS-1715 LeRoy av Bkly 2351
- Alter, Joseph Copley Berkeley
8 LS-1733 Milvia st Bkly 8540J
- Altermatt, Rayce Newton Olinda
1 Agr-1605 Arch st Bkly 3193
- Altman, Cresentia Mae Oakland
4 LS-2121 Twenty-first av, O Mer 2759
- Altman, Verna Lee El Paso, Texas
2 LS-2520 Durant av Bkly 1675
- Altschul, Estelle Anne Duluth, Minn.
(1) 4 LS-1683 Shattuck av Bkly 4618J
- Altschuler, Saul Jaffa, Palestine
4 CE-2419 Durant av Bkly 9149
- Amea, Ethel Florence Berkeley
4 LS-2219 Channing way Bkly 8668W
- Amea, Mary Eames Berkeley
1 LS-2219 Channing way Bkly 8668W
- Amos, Joseph Halulu Honolulu, T. H.
1s LS-2223 Atherton st Bkly 6680
- Amsbaugh, Archibald Eli Newman
4 LS and 1 Med-Merritt Hospital, O Pied 110
- Andersen, Alice Manila Selma
2 LS-2519 Etna st Bkly 8237W
- Andersen, Edward Christian Oakland
3 LS-2401 Durant av Bkly 6504
- Andersen, George Christian Council Bluffs, Iowa
1s LS PreA-587 Fifteenth st, O Lksd 792
- Andersen, Henry T. Selma
4 Agr-2235 Chapel st Albion
- Anderson, Arch Charles Bkly 6037J
4 Com-2210 Chapel st Kingsburg
- Anderson, Arnold Theodore Bkly 5942
4 Com-2500 College av Berkeley
- Anderson, Beatrice Bkly 8135J
3 Com-1200 Shattuck av Alhambra
- Anderson, Belle Gilcrest Bkly 8680
4 LS-2736 Haste st Richmond
- Anderson, Burton Elmer Rchd 26
4 LS-131 Ninth st, R Oakland
- Anderson, Clarence
4 Chem-2102 E Sixteenth st, O Los Angeles
- Anderson, Cora Ingeborg
4 Com-1621 Scenic av Berkeley
- *Anderson, Doris Bkly 1561J
4 LS-2441 Haste st Berkeley
- Anderson, Ella M. Bkly 5602
2 LS-2604 Etna st
- Anderson, Ernest C. Oroville
13 LS PreL-2200 Piedmont av Bkly 6681
- Anderson, Esther Anne Long Beach
3 LS-2520 Durant av Bkly 1675
- Anderson, Esther Bernhardtina Alameda
2 LS-1329 Regent st, A Ala 3214J
- Anderson, Ethel Mae Berkeley
1s LS-1515 Webster st, O Lksd 1515
- *Anderson, Frederick William Albion
4 Agr-2210 Chapel st Bkly 6037J
- Anderson, Harry O. Oakland
4 LS-Stiles Hall, Dana st and Allston way Bkly 481
- Anderson, Henry William Berkeley
1s LS-2606 Dwight way Bkly 139
- Anderson, Irene Elizabeth Coalinga
1 Com-2418 College av Bkly 4440
- Anderson, Joan Hall Los Angeles
2 LS-2626 Benvenue av Bkly 2908
- Anderson, Lawrence E. Chico
1 CE-5424 Thomas st, O Pied 4911J
- Anderson, Lily Pauline Alameda
2 LS-1329 Regent st, A Ala 3214J
- Anderson, Louise Cheney, Wn.
1(1) 3s LS-2909 Forest av Piedmont
- Anderson, Marion Frances Bkly 9520
3 LS-2710 Channing way Long Beach
- Anderson, Mary Bkly 7844J
1 LS-1719 Euclid av Los Angeles
- Anderson, Melvin Loy
(1) 2 Agr-403 Sixty-third st, O San Diego
- Anderson, Mildred L. Bkly 5650
1 LS-2417 LeConte av San Rafael
- Anderson, Naomi Mathilda
2 LS-1915 University av
- Anderson, Norman Murray Bamberton, Victoria, B. C.
1 Mec-2616 Virginia st Bkly 6716
- Anderson, Oscar Burt Oakland
1s Com-2101 Telegraph av, O Lksd 1700
- Anderson, Rosalie Richmond
2 LS-149 Richmond av, R Rchd 504
- Anderson, Roy Clarence Belt, Mont.
1 Com-2227 Carlton st Bkly 8324W
- Anderson, Ruth Constantia Penn Grove
3 LS-435 Steiner st, S F Mrkt 7483
- Anderson, Ruth Cornelia Riverside
(1) 3 LS-1550 La Loma av Bkly 7516
- Anderson, Ruth Helen Riverside
2 LS-1409 Arch st Alameda
- Anderson, Smith Chesley
2 LS PreL-2244 Santa Clara av, A Ala 1784
- Anderson, Sydney Alden Pomona
3 Agr-University Farm, Davis
- Anderson, Themis Margaret San Francisco
1 LS-2417 LeConte av Bkly 5650
- Anderson, Victor Gottfrid Los Angeles
3s Agr-2207 Ellsworth st

- Anderson, Walter Duncan Petaluma
 '1 LS PreM-1278 Jackson st, S F Pspt 1170
- Anderson, Werner Eugene Livermore
 '2 Com-2101 Telegraph av, O Oakd 1700
- Andrade, Grace Marcia Hayward
 1 LS-2511 Durant av Bkly 1762W
- Andres, Gregorio Mariano San Francisco
 '1 LS PreM-124 Turk st, S F Pspt 565
- Andrew, David Earl Salt Lake City, Utah
 1s LS-2412 Piedmont av Bkly 5098
- Andrew Prentis Edward San Francisco
 2 CE-1900 Pierce st, S F Flmr 291
- Andrews, Almon John Shawano, Wis.
 1 Com-4001 Hollis st, Emeryville Pied 1610
- Andrews, Clarence Arthur Upland
 3 Mec-2647 Durant av Bkly 103
- Andrews, Gladys Marie Watsonville
 1 LS-2524 LeConte av Bkly 2531
- Andrews, Lewis McKinley Los Angeles
 1 LS PreL-2600 Durant av Bkly 80
- Angell, Norman H. Soquel
 4 Mec-2501 Ridge rd Bkly 1335
- Angell, Robert Franklin Sioux Falls, S. D.
 3 LS-2616 Virginia st Bkly 6716
- Ankersmit, Nicolaas Diepenveen, Holland
 '1(1) 2 Agr-1730 La Loma av
- Ankrum, Morris Winslow Los Angeles
 (1) 2 LS-2416 Allston way
- Ansell, Percival Leonard Oakland
 '1s LS-309 Thomson bldg, O Lkad 2808
- Appel, Gretchen Walberga Emmett, Idaho
 (1) 4 LS-2417 LeConte av Bkly 5650
- Appleford, William Lutan Berkeley
 '1 LS PreL-2410 Bancroft way Bkly 4443W
- Apps, Chilton Clair Piedmont
 4 Com-Ellita apts, O
- Apte, Benjamin Ethan San Francisco
 4 Agr-University Farm, Davis
- Arbogast, Emerson Chipman Oakland
 1 Com-332 Glendale av, O Pied 6441
- Archer, Gladys Marion San Jose
 1 LS-2328 Bowditch st Bkly 2152W
- Archerd, Beulah Ardella Ripon
 3 LS-2740 Derby st Bkly 258
- Archerd, Russell H. Oakland
 1 CE-534 Twenty-seventh st, O Oakd 4491
- Archibald, Leona Alberta Berkeley
 2 LS-2336 McKinley av
- Arenas, Victor Bravo Lima, Peru
 (1) 2 Mec-2431 Dana st Bkly 547W
- Argens, Richard George San Francisco
 1 LS PreM-366 Sanchez st, S F Mrkt 4557
- Arguello, Jose Leopoldo San Miguel, C. A.
 '2 Agr-2214 Dana st Bkly 5043W
- Arkley, Harry William Lompoc
 '1 Com-2401 Durant av Bkly 6504
- Arlett, Benjamin Allen Oakland
 '1 Mec-1852 Thirty-ninth av, O
- Arlett, Grace Hollands Oakland
 4 LS-6165 Chabot rd, O Pied 7941
- Armitstead, Reo Bliss Salt Lake City, Utah
 (1) 2 LS PreM-5592 Lawton av, O
- Armstrong, Donald Venice
 3 LS and 1 Juris-2521 Hearst av Bkly 708
- Armstrong, Earle Fabian Manila, P. I.
 2s Chem-1730 La Loma av Bkly 8716
- Armstrong, Elizabeth Potter Oakland
 1 LS-6406 Hillegass av, O Pied 2380W
- Armstrong, Elsa Catherine Portland, Ore.
 1 LS-2632 Haste st Bkly 1033W
- Armstrong, Gladys Los Angeles
 2 LS-2723 Durant av Bkly 9531
- Armstrong, Greba Lenore Grass Valley
 '2 LS PreL-2519 Ridge rd Bkly 7614
- *Armstrong, James Irvine Salinas
 4 LS-3021 Deakin st Bkly 6029W
- Armstrong, John Awdry Ontario
 2 Agr-2547 Channing way Bkly 4638
- Armstrong, Richard Follett San Francisco
 '2 LS PreL-2601 Durant av Bkly 23
- Armstrong, Ward Dwight Berkeley
 '1 LS-2249 Hearst av Bkly 6388
- Arndt, Sigmund Charles Sacramento
 '3 LS PreL-Cor. Ridge rd and Highland Bkly 822J
- Arneson, Joseph Alfred Big Timber, Mont.
 3 Com-2120 Kittredge st Bkly 2090
- Arnold, Berenice Geneva Berkeley
 (1) 2 LS-2511 Prince st Bkly 6864W
- Arnold, Charlotte Warfield Berkeley
 1 LS-2924 Derby st Bkly 5348W
- Arnold, Grace Berkeley
 4 LS-2709 Derby st Bkly 8484W
- Arnold, John Dennis, Jr. San Francisco
 '2 Agr-Hotel Whitecotton Bkly 7300
- Arnold, Landis J. Colorado Springs, Colo.
 4 LS-2522 Ridge rd Bkly 5950
- Arnold, Ruth Marie Berkeley
 2 LS-2721 Channing way Bkly 808
- Arnold, Valerie Harnise Berkeley
 2 LS-Hotel Whitecotton Bkly 7300
- Arnold, Vera Georgia Berkeley
 1 LS PreL-2721 Channing way Bkly 808
- Arnold, Walter Frank San Francisco
 '1 LS PreM-790 Kansas st, S F Man 3113
- Arnot, Ralph Wesley Berkeley
 4 LS and 1 Juris-2646 Dwight way Bkly 4104

- Arnott, May Edith Oakland
 11 LS-2414 E Twenty-second st, O
 Aronson, Aldo Ernest Oakland
 2 Chem-5505 McMillan av, O Pied 3281W
 Aronson, Katherine San Francisco
 4 LS-1420 Jackson st, S F Frkn 7088
 Aronson, Moses Judah New York, N. Y.
 1 LS-1809 Euclid av
 Ashby, Eleanor Berkeley
 21 LS-2538 Durant av Bkly 8361W
 Ashe, Sam Bakersfield
 1 LS PreL-2425 LeConte av Bkly 4334
 Asher, Alvin Melville El Monte
 1 LS Pre L-2312 College av Bkly 893W
 Ashkenaze, Walter Oakland
 2a Chem-2247 Bancroft way Bkly 3873
 Ashley, Chester Cuthbert Oakland
 2 Mec-2448 Damuth st, O Frvl 191W
 Ashley, J. Hamilton Berkeley
 2 Min-1538 Henry st Bkly 9288W
 Ashley, Lucius Allen Oakland
 3 Mec-2448 Damuth st, O Frvl 191W
 Ashley, Muriel Frances Cool
 1 Chem-2632 Haste st Bkly 1033W
 Aspinall, Helen Elizabeth Selma
 11 LS-2400 Bancroft way
 *Atcheson, George, Jr. Denver, Colo.
 4 LS-2601 Channing way Bkly 5904
 Atchison, Edward McKean Berkeley
 4 Mec-2502 Ashby av Bkly 7084
 Atchison, Grant Andrew San Francisco
 8 Mec-2816 Bowditch st Bkly 1416
 Atchison, Milbrun Janice Berkeley
 3 LS-2502 Ashby av Bkly 7084
 Aten, Ildene Jane Berkeley
 1 LS-2111 Cedar st Bkly 2644J
 Atkins, Frank Lionel Oakland
 21 Com-1929 Thirty-fifth av, O Frvl 1717J
 Atkinson, Charles Guy, Jr. Portland, Ore.
 11 LS PreL-2327 Bancroft way
 Atkinson, Helen James Ben Lomond
 3 LS-2736 Haste st Bkly 8680
 Atkinson, Muriel Caroline Napa
 1 LS-1711 Jayne st Bkly 1947J
 Atkinson, Ralph Wesley San Francisco
 2 LS-2330 Telegraph av Bkly 9227
 Atkinson, Wilma Jennette Los Angeles
 1 LS-2400 Piedmont av Bkly 5224
 Atkinson, Helen Day Sanger
 3 LS-2821 Bancroft way Bkly 1765
 Atwater, Benner Milely Oakland
 3 LS-420 Fairmount av, O Oakd 7016
 Atwater, William Olmsted Oakland
 13 LS-420 Fairmount av, O Oakd 7016
 Atwood, Leslie Worth Long Beach
 1 Com-2805 Durant av Bkly 6981
 Auberlin, Helen Lorraine Vallejo
 1 LS-2330 College av Bkly 1803
 Augsburg, Helen Oakland
 2 LS-4295 Gilbert st, O Pied 2112W
 Augustine, Lucy Jennette Decatur, Ill.
 1(1) 3 LS-2416 College av Bkly 8476J
 Augusto, George Mitchell Antioch
 11 Mec-1255 Eighty-third av, O Elm 229
 Austin, Beatrice Blanche San Francisco
 2 LS-2709 Channing way Bkly 8528
 Austin, Charles Lloyd Berkeley
 4 Agr-2809 Forest av Bkly 3761
 Austin, Margaret Scott Hawi, T. H.
 3 LS-2214 Dana st Bkly 1160
 Austin, Philip Henry Berkeley
 (1) 2 Min-2137 Berkeley way Bkly 112W
 Austin, Ward Hunting Covina
 11 Mec-2420 Channing way Bkly 7404W
 Avant, Mary Eva Twin Falls, Idaho
 (1) 2 LS-2418 College av Bkly 4440
 Avellar, Florence May Provincetown, Mass.
 1 LS-1810 Bonita av
 Averill, Frances Fairchild Oakland
 2 LS-2937 Magnolia st Bkly 9072W
 Averill, Norman William Los Angeles
 1 Mec-2412 Piedmont av Bkly 5098
 Avery, Ewing Bertrand Kansas City, Mo.
 (1) 2 LS-2214 Dana st Bkly 1160
 Avery, Grace Louise Buffalo, N. Y.
 1 Com-1601 Arch st Bkly 1262W
 Avery, Margaret Eleanor Oakland
 2 LS-29 Westall av, O Pied 7517W
 Avery, Ruby May Monrovia
 2 LS-University Infirmary, Campus
 Avila, Isabel Bernhard Berkeley
 2 Com-2905 Piedmont av Bkly 8624
 Avis, Paul Robert Pomona
 1s LS PreL-2412 Piedmont av Bkly 5098
 Ayer, Clarisse Edith Berkeley
 3 LS-2801 Fulton st Bkly 4347W
 Ayer, Marion Bushnell San Francisco
 3 LS-3740 Seventeenth st, S F Mrkt 3738
 Ayer, Milo Clarence Oakland
 1 LS PreL-694 Appar st, O Pied 6559
 Ayerbe, Fernando Popayan, Colombia
 21 Agr-2437 Telegraph av Bkly 6186
 Ayers, Zedell Kathleen Burlingame
 1s LS PreL-1934 Berkeley way Bkly 7829J
 Aylesworth, Evelyn Frances Oakland
 4 LS-2248 Telegraph av Bkly 9011
 Aylesworth, Isaac Brock Oakland
 21 LS-2248 Telegraph av Bkly 9011
 Aylsworth, Bernice Evelyn Portland, Ore.
 21 LS-2428 Haste st Bkly 5587W
 Aylsworth, Bertha Marie Portland, Ore.
 4 LS and 1 Juris-2428 Haste st Bkly 5587W
 Ayres, Manvil Hector San Juan Bautista
 1s LS PreL-2414 Dana st

- Ayyas-Oglou, Vladimir Vladimirovitch
Odessa, Russia
2 LS PreA-2248 Telegraph av Bkly 9011
- Azevedo, Joseph Leo
Oakland
12 LS-790 Eighth st, O Oakd 5947
- Babcock, Edward S., Jr.
Riverside
14 LS and 1 Med-1711 Euclid av
Bkly 3378
- Babigian, Berge Harutun
Erivan, Armenia
1 Mec-2502 Telegraph av
- Babigian, Suren Haratun
Erivan, Armenia
1 LS PreM-2502 Telegraph av
- Babin, Norbert Stanford
San Francisco
1 Agr-1530 Larkin st, S F Frkn 3866
- Bachelder, James Raymond
Oakland
1s LS-2316 Bowditch st Bkly 1416
- Bacheller, Paul Fuller
New York, N.Y.
4 LS-2251 College av Bkly 9107
- Bachman, John
Berkeley
2 Mec-1605 Milvia st
- Bachrach, Constance Mary
Berkeley
1 LS-40 El Camino Real Bkly 417W
- Bachrach, Jane Alice
Berkeley
1 LS-40 El Camino Real Bkly 417W
- Bacon, Frances Gertrude
Medford, Ore.
4 Com-2436 Haste st Bkly 5501J
- Bacon, Milton Edward
Wyandotte, Mich.
3 LS-Berkeley Inn Bkly 6370
- Bacon, Russell Swett
Alameda
1 Agr-1726 Eagle av, A
- Bacon, Thomas Edward
Alameda
1 LS-2522 Ridge rd Bkly 5950
- Badertscher, Dora
Fresno
2 LS-1325 Spruce st Bkly 999W
- Bagley, Ferris
Salem, Ore.
1(1) 3s Mec-2701 Benvenue av
Bkly 5603W
- Bagley, Ralph Frederick
Vancouver, B. C.
4 LS PreL-2201 Blake st Bkly 3172
- Bagley, Veva Lucretia
San Francisco
1 LS-1840 Berryman st Bkly 7999W
- Bahla, Frederick Walter
San Francisco
2 LS PreL-2316 Bowditch st Bkly 1416
- Bahrs, George Ohrt
San Francisco
2 LS PreL-2332 College av Bkly 1134
- Bailard, Willis R.
Carpinteria
2 Agr-2307 Hearst av
- Bailey, George Cornelius
Berkeley
1 Mec-2024 Channing way
- Bailey, Helen Irene
San Jose
2 LS-1567 LeRoy av Bkly 8975W
- Bailey, Herbert Mooney
Lemoore
1 Com-2610 Durant av Bkly 7804
- Bailey, Mirian Jewell
Berkeley
1 LS-2217 Channing way Bkly 2023J
- Bailey, Sarah
Piedmont
3 LS-42 Monticello av, P Pied 3597
- Bain, Erin
Waco, Texas
2 LS-2334 Bowditch st Bkly 1358W
- Baird, Carroll Hubbard
Fresno
1 LS-2521 Hearst av Bkly 708
- Baird, Dorothy Barton
Alameda
1 LS-2629 Haste st Bkly 3287
- Baird, Emily Gertrude
Berkeley
1 LS-1630 LeRoy av
- Baird, Morgan Corwin
Fresno
2 LS-2521 Hearst av Bkly 708
- Baird, Walton Addison
Fresno
2 LS PreL-2521 Hearst av Bkly 708
- Baisley, Herbert Kenneth
San Jacinto
12 Mec-593 Twenty-eighth st, O Oakd 9262
- *Baker, Alwyn John
Redding
4 LS-1151 Oxford st Bkly 6958J
- Baker, Dorothy Victoria
Pomona
1 LS-2520 Durant av Bkly 1675
- Baker, Frances
Santa Barbara
4 LS PreM-620 Sutter st, S F Pspt 6500
- Baker, George Griswold
San Francisco
12 Chem-1658 Washington st, S F
- *Baker, Hiram Rufus
Redding
4 LS and 1 Juris-2521 Channing way
Bkly 9306
- Baker, Howard M.
Eureka
12 LS-2307 Hearst av Bkly 6815
- Baker, Jack J.
Oakland
1 LS PreM-4026 West st, O
- Baker, Robert Francis
Alameda
4 LS-2610 Durant av Bkly 7804
- Baker, Thelma
Coalinga
1 LS PreA-2362 Woolsey st Bkly 8765J
- Bakken, Henry Norris
Berkeley
1s LS-2610 Durant av Bkly 7804
- Balch, Sophia Matilda
Oakland
1s LS-1744 Ninth av, O Mer 4574
- Baldwin, Edward Jackson, Jr.
Los Angeles
1 Agr-2214 Dana st Bkly 5043W
- Baldwin, John Glascock
Redwood City
1 LS PreL-2529 Hearst av Bkly 40
- Baldwin, Lloyd Thomas
San Francisco
3 Agr-University Farm, Davis
- Baldwin, Orville Dwight
Cloverdale
4 Mec-2827 Bancroft way Bkly 7388W
- Ball, Arvilla
Santa Ana
12 LS-2214 Dana st Bkly 1160
- Ball, Barbara
San Francisco
2 LS-2723 Durant av Bkly 9531
- Ball, Blanche Bethel
Fullerton
1 LS-3011 Telegraph av Bkly 639W
- Ball, Madeleine Marie
Oakland
2 LS-597 Twenty-third st, O Oakd 169
- Ball, Robert Jandon
Berkeley
1 LS PreM-2400 Van Ness av, S F Pspt 1500
- Ball, Rose Marie
Berkeley
12 LS-Hotel Claremont Bkly 9300
- Ball, Thelma Dessie
Fullerton
3 LS-1365 Taylor st, S F Pspt 715

- Ballard, Helen Mabry Creston
4 LS-2730 Virginia st Bkly 1025J
- Ballard, James Irving Oakland
2 CE-2617 Durant av Bkly 822
- Balling, William Marshall San Gabriel
2 Min-2320 Bancroft way Bkly 4676
- Ballou, Frederic Ellsworth San Francisco
1s LS-2134 Oxford st Bkly 409
- Balsdon, Harold Hamilton Colusa
3 LS-1726 Euclid av Bkly 6706
- Balsley, Carol Hanson Berkeley
2 LS-1965 Marin av Bkly 5930J
- Banfield, Fred Barton Oakland
11 Agr-6440 Benvenue av, O Pied 479W
- Banker, Franklin Judd Berkeley
2 Agr-2836 Regent st Bkly 8220W
- Bankhead, Harold Moskiman Oakland
11 Min-886 Twenty-ninth st, O Oakd 6444
- Banks, Edna Catherine Sacramento
4 LS-2627 Hearst av Bkly 3229
- Banks, Lawrence Jerome Ukiah
3 Agr-University Farm, Davis
- Banks, Mary Esley Lawrence, Kan.
(1) 4 LS-2520 Bancroft way Bkly 5062J
- *Banning, George Hugh Los Angeles
4 LS-1815 Highland pl Bkly 1682
- Banning, William Phineas Los Angeles
3 Mec-1815 Highland pl Bkly 1682
- Bannister, Dorothea Emma Berkeley
3 LS-2608 Benvenue av Bkly 5358J
- Bannister, Mary Helen Brawley
3 LS-2407 South Atherton st
- Bannock, Iris May Glendale
2 LS-2620 College av Bkly 9295W
- Banson, Antonio L. Oakland
1(1) 3 LS-1822 University av Bkly 1283
- Baraker, Aaril Ellov Kamenetz-Podolsk, Russia
4 LS-2811 Durant av Bkly 645
- Baratono, Bernard Joseph Oakland
11 LS-6119 Dover st, O Pied 2447
- Barber, Evelyn Ursula Richmond
2 LS PreA-1564 LeRoy av Bkly 8282J
- Barbier, Eugene Oakland
1 LS-2634 Bancroft way Bkly 1276
- Bard, Margaret Estelle San Diego
(1) 3 LS-2627 Hearst av Bkly 4009
- Barell, Benard Portland, Ore.
2 Chem-2127 Kittredge st Bkly 1896J
- Barkelew, Helen Adams Fresno
1 LS-2739 Bancroft way Bkly 204
- Barker, Carroll Kendall Portland, Ore.
3 Com-2836 College av Bkly 2431
- Barker, David Nelson Los Angeles
2 LS-2938 Hillegass av
- Barker, Deon Bromley San Francisco
3 LS-2647 Durant av Bkly 102
- Barker, Erwin Lawrence Oakland
11 Chem-1618 Milvia st
- Barker, Genevieve Cameron Grass Valley
1 LS-2739 Ashby av Bkly 5783J
- Barker, Helen May Oakland
1(1) 2 LS-1718 Fifth av, O
- Barker, Johanna Lucille San Jose
4 LS-2400 Bancroft way Bkly 6488J
- Barker, Waldo Welton Pacific Grove
3 Com-1730 LaLoma av Bkly 8716
- Barkley, Heartsease Gladys Alameda
1 LS-1406 Bay st, A Ala 2371
- Barkley, Robert Ioe Point Loma
(1) 2 Mec-550 Fifty-third st, O
- Barlow, Walter Jarvis, Jr. Los Angeles
1 LS-2521 Hearst av Bkly 708
- Barnard, Dorothy Denny San Luis Obispo
(1) 2 LS-2610 College av Bkly 3866W
- Barnard, Eleanor Berkeley
4 LS-2714 Ridge rd Bkly 9098
- Barnard, Gerald Butler Berkeley
3 LS-2522 Ridge rd Bkly 5950
- Barnard, Lawrence Ventura
4 Agr-University Farm, Davis
- Barnard, Paul Coolidge San Luis Obispo
1 Agr-2610 College av Bkly 3866W
- Barnes, Bertram Soules Santa Barbara
3 CE-2234 Haste st Bkly 149W
- Barnes, Charles Daugherty Ontario
1 LS PreL-1432 Third av, O Mer 192
- Barnes, Edith Emily Alameda
2 LS-985 Park st, A
- Barnes, Franklin Lockwood San Diego
1(1) 2 Com-2532 Hillegass av Bkly 561J
- Barnes, H. Eva Ceres
(1) 3 LS-2417 Bancroft way Bkly 1445
- Barnes, Margaret Ann San Diego
1 LS-2534 Hillegass av Bkly 5776W
- Barnes, Richard Lea Portland, Ore.
11s Com-Hotel Whitecotton Bkly 7300
- Barnes, Ruth Helen Berkeley
3 LS-2545 Dwight way Bkly 3209J
- Barnes, Stanley Nelson San Diego
2 LS PreL-2345 College av Bkly 62
- Barnett, Helen Maine San Francisco
4 LS-Hotel Claremont Bkly 9300
- Barnett, Joseph Edell Calexico
12 LS-2618 Durant av
- Barnett, Peter D. Calexico
4 LS-2248 Telegraph av Bkly 9011
- Barnhart, Kathryn Elizabeth San Diego
1 LS-2709 Channing way Bkly 8528

- Barnum, Clyde C. Medford, Ore.
3 Agr-2410 Warring st Bkly 3666
- Barr, Betty Dorothy Lewiston, Idaho
(1) 2 LS-2409 College av Bkly 7744W
- Barr, Doris Stockton
1 Com-2515 LeConte av Bkly 4561
- Barr, Marjorie Angennette Los Angeles
4 Com-1521 Walnut st Bkly 9358W
- Barr, Mary Alice Whittier
8 LS PreM-2217 Atherton st
- Barr, Mary Evelyn Fresno
1 LS-2731 Regent st Bkly 2075
- Barr, Robert Cecil Missoula, Mont.
1 Agr-2606 Bancroft way Bkly 2617
- Barrett, Mary Grace Kansas City, Mo.
1 Agr-2530 Ridge rd Bkly 7084
- Barrett, William Grout San Francisco
1 Chem-2626 Lyon st, S F
- Barrette, Louis Charles Shingle
4 LS PreM-2412 Piedmont av Bkly 5098
- Barron, Alexander Huaraz, Peru
1 Agr-2519 Durant av
- Barron, Loyda Kate Soulsbyville
3 LS-2721 Channing way Bkly 808
- Barrow, Ruth Belle Ellinwood, Kan.
1s LS-2416 College av Bkly 8427J
- *Barrow, Will Gustin Coquille, Ore.
4 Com-2017 Bancroft way Bkly 1539
- Barrows, Jeannette Berkeley
2s LS-2416½ Durant av Bkly 7537W
- Barrows, Thomas Nichols Berkeley
3 LS-Presidents' House Bkly 7100
- Barry, Edwina Constance San Francisco
2 LS PreL-2821 Broderick st, S F Flmr 864
- Barry, Helen Los Angeles
3 LS PreA-2725 Channing way Bkly 7950
- Barry, Helen F. San Francisco
1 LS-2044 Larkin st, S F Pspt 4480
- Barry, Theresa Mary Berkeley
1s LS-2604 Etna st Bkly 5602
- Barth, Herbert San Francisco
2 Mec-2521 Channing way Bkly 9306
- *Barth, Martha Alvina San Francisco
4 LS-80 Sixth av, S F Pac 4007
- Bartlett, Alexander George Fresno
4 LS PreM-2321 Haate st Bkly 8573W
- Bartlett, Frances Mary Pasadena
2 LS-2530 Etna st Bkly 4975J
- Bartlett, Francis Wayland Fresno
2 LS PreL-2717 Hearst av Bkly 5770
- Bartlett, Nellie Amanda Laton
4 LS-2214 Ellsworth st Bkly 3149
- Barton, Beatrice Alice Berkeley
1 LS-2921 Shattuck av
- Barton, Robert Manley San Mateo
1 Min-1437 Grove st
- Barton, William Sidney Altadena
1s LS-2625 Hearst av Bkly 4025
- Bartruff, Rosa Katherine Salem, Ore.
1s LS-1762 Bushnell pl
- Baruch, Albert Leonard San Francisco
14 LS-Treelhaven apts Bkly 5564W
- Barusch, Leo Oakland
1 LS-715 Thirty-third st, O Pied 6159J
- Bashore, Myrtle Mae Berkeley
1s LS-2514A Virginia st
- Bass, Oswald Burton Victoria, B. C.
1 Mec-2415 Bowditch st Bkly 8650J
- Bastin, Catherine Sylvia Oakland
1s LS-471 Hudson st, O Pied 4453J
- Baston, Cyril Edward San Diego
3 Mec-1920 University av
- Batchelder, Alice Adeline Jackson
2 LS-2924 Pine st, S F
- Batchelder, Charles Frederick Petaluma
1 Min-2821 Bancroft way Bkly 1765
- Batchelor, John Justice Berkeley
3 LS PreM-2249 Fulton st Bkly 3583
- Bates, Betty Venice
1 LS-2318 Telegraph av Bkly 5964
- Bates, Charles E. H. Alameda
14 LS and 1 Med-727 Paru st, A Ala 95
- Bates, Modene D. Roswell, N. M.
1(1) 2 LS-2815 Regent st Bkly 303W
- Bates, Wallace Jantzen San Francisco
1 LS PreL-1987 Oak st, S F Mkrt 4051
- Bates, Wardie Lee Carlsbad, N. M.
1 Com-2815 Regent st
- Bates, William Henry Oakland
1 Mec-450 Alcatraz av, O
- Bathgate, Cecelia Florence Orange
3 LS-2214 Vine st Bkly 8364W
- Battelle, Thornton Herbert Placerville
2 Com-2401 Durant av Bkly 6504
- Batterson, Maude Helen Redlands
2 LS-2627 Hearst av Bkly 4009
- Battilana, Zaida I. Stockton
2 LS-2821 Bancroft way Bkly 1765
- Bauer, Roy Maurice Napa
4 LS-2435 Haste st Bkly 1980
- *Baugh, Max C. Corning
4 LS-2419 Durant av Bkly 3362
- Baughman, Mary Ramona Brawley
3 LS-2721 Channing way Bkly 808
- Baumgartner, J. Vance Oakland
2 Com-2717 Hearst av Bkly 5770
- Baumhoff, Blanche Viola Huron, S. D.
1 LS-1748 Oxford st
- Baxter, Aida Mildred Oakland
2 LS-563 Oakland av, O Pied 5580
- Baxter, Geoffrey Haslam Berkeley
4 LS and 1 Med-250 Tunnel rd Bkly 378
- Baxter, Hazel Bernice Oakland
1 LS-3600 Woodruff av, O Mer 2566

- Bayaya, Cirilo Manila, P. I.
2 LS-1822 Buena Vista av
- Bayer, Jerome Haas San Francisco
5 LS and 2 Juris-2211 Fulton st
Bkly 1645W
- Baylies, Isabel Evanston, Wyo.
2 LS-2709 Channing way Bkly 8528
- Baynes, Maybelle Esther Vacaville
8 Com-2406 Bancroft way
- Beach, Arthur Lloyd San Francisco
1 CE-45 Carl st, S F Park 1257
- Beach, Dorothy Yeomans Piedmont
2 LS-110 Sunnyside av, P Pied 920
- Beach, Kenneth Clyde Lewiston, Idaho
2 LS-2808 Forest av Bkly 1004W
- Beach, Vera B. Fort Atkinson, Wis.
2 LS-5537 Taft av, O Pied 7538
- Beach, Walter E. Glendale
2 Com-2345 College av Bkly 62
- Beacon, Calion Adolph Denver, Colo.
21s LS-Ridge rd and Highland pl
- Beal, Robert Wells Oakland
1 LS-2625 Hearst av Bkly 9535
- Beall, Elizabeth Oakland
4 LS-1520 Harrison st, O Oakd 9290
- Beals, Gladys Maud Hermiston, Ore.
21 LS-2488 Ellsworth st
- Beals, Ralph Albert Santa Ana
3 LS-2609 LeConte av Bkly 8836W
- Beam, Stewart Noel Whittier
21 Mec-2625 Hearst av
- Beam, Verna Frances Whittier
3 LS-2520 Durant av Bkly 1675
- Beaman, David Erl Berkeley
21 Mec-1306 Peralta av Bkly 8681W
- Beaman, Elaine Berkeley
21 LS-1306 Peralta av Bkly 8684W
- Bean, Abigail Eames Berkeley
21 LS-2811 Benvenue av
- Bean, Ethel Hazel Folsom City
3 LS-1222 Fourth av, O
- Bean, Hazel Gladys Santa Barbara
4 LS-2534 Bancroft way Bkly 8253W
- Bean, Margaret Beatrice Berkeley
1 LS-1619 La Loma av Bkly 4966J
- Beard, Rudolph Walter Kerman
1 Mec-579 Eleventh av, S F West 1395
- Beardalee, Harland Franklin So. Pasadena
2(1) 2 Mec-2330 Telegraph av Bkly 9227
- Beattie, Helen Gertrude San Jose
1 LS-2633 Etna st Bkly 4066
- Beatty, Harriet Josephine Long Beach
1 LS PreL-2400 Bancroft way Bkly 6488J
- Beatty, Malva Grace San Jose
(1) 2 LS-2627 Hearst av Bkly 3229
- *Beaty, F. Ruth Berkeley
(1) 4 LS-1925 Hopkins st Bkly 5113J
- Beaty, Rollo Arthur Paso Robles
2 Chem-1925 Hopkins st Bkly 5113J
- Beaty, William Henry Ilwaco, Wn.
4 Mec-1762 Bushnell pl
- Beaufait, Marion Ebon Berkeley
2 LS-945 Cragmont av Bkly 2113W
- Beaumont, Helen Louise Lincoln, Neb.
1 LS-2540 College av Bkly 3354
- Beaver, Gerald Allan Alameda
1 Mec-1533 Court st, A Ala 3408
- Bechen, Eleanor Hillsboro, Ore.
2(1) 3 Com-2228 Parker st Bkly 1988J
- Bechen, Esther Hillsboro, Ore.
2(1) 2 Com-2228 Parker st Bkly 1988J
- Bechtel, Belle Manning San Leandro
21 LS-Treehaven apts Bkly 8447J
- Bechtel, Stephen Davison San Leandro
1s LS-2607 Hearst av Bkly 5913
- Betchel, Warren A. San Leandro
21s Agr-Treehaven apts Bkly 8447J
- Beck, Alice Jeannette Tulare
21 LS-1610 Tyler st Bkly 7883J
- Beck, Eleanor Winters Oakland
1 LS-125 Moss av, O Pied 8476J
- Beck, Elizabeth Beatrice Chicago, Ill.
(1) 4 LS-Hotel Claremont Bkly 9300
- Beck, Eric Robert Berkeley
1 LS-2544 Buena Vista way Bkly 869J
- Beck, Margaret Dorothy Berkeley
4 LS-1636 Josephine st Bkly 8448W
- Beck, Mary Grace Berkeley
2 LS-1827 Delaware st Bkly 4364
- Beck, Paul Dillman Oakdale
2(1) 2 Com-1996 University av
- Beck, Walter Samuel Berkeley
1 LS-2544 Buena Vista way Bkly 869J
- Becker, Hugo Ernst Springerville, Ariz.
2 Mec-2701 Hearst av Bkly 2421
- Beckett, John Adrian Oakland
1 Com-3538 Telegraph av, O Pied 1522W
- Beckett, Wheeler Martin A. New York, N.Y.
3 LS-2624 Channing way Bkly 2019J
- Becklund, Philip St. Cloud, Minn.
(1) 2 Agr-2214 Union st Bkly 2483
- Beckman, Margaret Nellie Lodi
1 Com-2511 Durant av Bkly 1762W
- Beckhuis, Herman Albert, Jr. Fresno
1 Chem-2406 Bancroft way Bkly 6428
- Beekley, Archie Gordon San Diego
1 Com-2211 Union st Bkly 2233W
- *Beeman, Gladys Evelyn Tuolumne
4 LS-2228 Chapel st
- Beeson, Russell Wood Warren, Ohio
4 Agr-2647 Dwight way Bkly 5831
- Beggs, Phil Berg San Jose
21s LS PreL-347 Alcatraz av
- Behneman, Harold Mayo F. Oakland
4 LS PreM-421 Perkins st, O Lkld 1152

- Behr, Otho Moring Pasadena
 '4 LS-2711 Virginia st Bkly 6178J
- Belknap, Frances Adelia Modesto
 1 LS-2500 Bancroft way Bkly 1848
- Bell, Alyn B. San Bernardino
 2 Chem-2528 Ridge rd Bkly 8500
- Bell, Clifford Windsor
 2 Chem-1536 Bonita av
- Bell, Elizabeth Mildred San Anselmo
 '3 LS-2519 Ridge rd Bkly 7614
- Bell, Ethel Claire Berkeley
 1 LS-2248 Dwight way Bkly 8184J
- Bell, Evangeline Los Gatos
 '3 LS-2721 Haste st Bkly 8800
- Bell, Helen Katherine Berkeley
 2 LS-2248 Dwight way Bkly 8184J
- Bell, Howard Mitchell Denver, Colo.
 '1s LS-2318 Telegraph av Bkly 5964
- Bell, James Kelton, Jr. Berkeley
 2 Mec-2014 Cedar st Bkly 4755
- Bell, Maurine Theodora San Francisco
 2 LS-775 Post st, S F Papt 1202
- Bell, Ruth Harris Saratoga
 3 LS-2732 Channing way Bkly 7026
- Bell, Samuel, Jr. Whittier
 (1) 2 LS-2625 Hearst av Bkly 9535
- Bell, William Morris Redlands
 (1) 2 Agr-2607 Hearst av Bkly 5918
- Bellanca, Andrew San Francisco
 4 LS and 1 Juris-1274 Thirty-seventh av, SF
- Bellanca, Concetta San Francisco
 4 LS-1274 Thirty-seventh av, S F
- Belliss, F. Cyril Benson Selma
 2 LS-2642 Bancroft way Bkly 653
- Belloni, Mark Joseph Angels Camp
 2 Mec-2504 Dana st
- Bemis, Grace Adelaide Rialto
 '1(1) 3 LS-1146 Euclid av Bkly 2498
- Benas, Benjamin San Francisco
 3 CE-654 Cole st, S F Park 2885
- Benda, Jeanne Morrison San Francisco
 1 LS-875 Church st, S F Valen 3890
- Bender, George Lee San Francisco
 2 Com-2646 Dwight way Bkly 4104
- Bendure, Gladys Berta Durango, Colo.
 4 LS-2416 College av Bkly 8476J
- Bendure, Zelma Gretchen Durango, Colo.
 3 Com-2416 College av Bkly 8476J
- Benedict, Eva Gael Lodi
 4 LS-2214 Dana st Bkly 1160
- Benedict, Madeleine Macy Pleasanton
 4 LS-2725 Channing way Bkly 7950
- Benham, Catharine Portland, Ore.
 3s LS-2039 Shattuck av Bkly 4929
- Benitez, Enrique Manuel Monterey, Mexico
 '3 Agr-2126 Bancroft way Bkly 6759W
- Benjamin, Edward Paul Oakland
 1 Com-5353 Manila av, O Pied 7021J
- Benjamin, Emily Margaret Oakland
 1 LS PreL-5353 Manila av, O Pied 7021J
- Benjamin, Robert Philip Oakland
 3 Com-5353 Manila av, O Pied 7021J
- Benner, Frederic Campbell Oakland
 2 LS-370 Thirty-fourth st, O Pied 732
- Bennett, Dudley Wayne Santa Cruz
 2 LS PreM-2601 Durant av Bkly 23
- Bennett, Edith May Mountain Home, Idaho
 2 Com-2204 Durant av Bkly 3170
- Bennett, Esther Olive Pullman, Wa.
 2 LS-2614 Hilgard av Bkly 3335
- Bennett, Gladys Marie Sacramento
 1 LS-2627 Hearst av Bkly 4009
- Bennett, Howard Edwin San Diego
 3 Min-2222 Atherton st Bkly 5479J
- Bennett, Jesse Lee Caliente
 3 Min-2804 Telegraph av Bkly 3428
- Bennett, Lars Henry Watsonville
 1 LS-2502 Hilgard av
- Bennett, Nettie Pullman, Wa.
 3 Agr-2614 Hilgard av Bkly 3335
- Benoist, Luis Octavio Vina del Mar, Chile
 '1 Mec-2214 Union st Bkly 2483
- Benson, Carl Fresno
 2 Mec-2004 Delaware st Bkly 6596
- Benson, Jesse Guy Petaluma
 2 LS PreL-2115 Delaware st Bkly 9399J
- Benson, Robert Gordon Topaz
 3s LS-2827 Bancroft way Bkly 1061W
- Bent, Enaley Miles Healdsburg
 '2 Min-2627 Ridge rd Bkly 2541
- Bent, Ruth Marion Berkeley
 1 Com-2524 LeConte av Bkly 2531
- Bentley, Clyde Edward Oakdale
 2 Mec-2606 Bancroft way Bkly 2617
- Benton, Elinor Louise San Jose
 1 LS-6000 Claremont av, O Pied 5776J
- Benyas, Dorothy Reeder Philadelphia, Pa.
 (1) 4 LS-2516 Ridge rd Bkly 5645W
- Bepler, Beatrice Mathilde San Francisco
 '2 LS-2539 Durant av
- Bercovich, Jack Spencer Oakland
 '1 Com-680 Fourteenth st, O Oakd 7940
- Bercovich, Velma San Francisco
 1 LS-200 Twentieth av, S F Bay View 1952
- Berelson, Minnie San Francisco
 3 LS PreM-2417 LeConte av Bkly 5650
- Beresford, Harold Kelsey Corning
 3 Agr-2521 Channing way Bkly 9306

- Berger, Harry Tucson, Ariz.
2 LS-2601 Durant av Bkly 23
- Berger, Harry Hoen Tucson, Ariz.
1(1) 3 LS-Hotel Whitecotton Bkly 7300
- Bergman, Myrtle Florence Los Angeles
(1) 2 LS-4429 Webster st, O
- Berkey, Robert Adair Los Angeles
1 LS-2522 Ridge rd Bkly 5950
- Berlin, Beatie Lucile Berkeley
(1) 2 LS-2314 Virginia st. Bkly 6064W
- Berlin, Paul Latham Alameda
4 Min-1525 Chestnut st, A Ala 1720
- Bermingham, Anne Marie San Francisco
1 LS-275 Clipper st, S F
- Bernard, Beatrice Grace Bishop
2 LS-2380 College av Bkly 1803
- Bernard, Gertrude Blanche Bishop
4 LS-2380 College av Bkly 1803
- Bernard, Noemi Y. The Dalles, Ore.
3 LS-2500 Durant av Bkly 8253J
- Berndt, Kurt Henry San Francisco
2 LS PreL-1850 Sixth av, S F
Snst 2850
- Bernhard, John Lincoln San Francisco
1 LS-809 Shrader st, S F Park 5217
- Bernhard, Rosina Owen Omaha, Neb.
2 LS PreL-2214 Haste st Bkly 5346
- Bernhard, Vera Claire Oakland
1 LS-430 Orange st, O Oakd 8491
- Bernauteur, Robert Gibbon Sacramento
1 Mec-2429 Hilgard av Bkly 1700J
- Bernstein, Henry Oakland
1 Eng-600 Forty-sixth st, O
- Berrey, Gervais Lee Berkeley
4 LS and 1 Juris-2509 Hilgard av
Bkly 6761W
- Berry, Florence Roberta Berkeley
2 LS-2700 Benvenue av Bkly 26W
- Berry, Harvey Rosebrugh Manteca
2 Mec-2839 Prince st Bkly 8852W
- Berry, La Vesta Mildred Berkeley
1 LS-2413 Virginia st Bkly 7205J
- Berry, Mildred Genevieve Covina
(1) 3 LS-2627 Hearst av Bkly 8229
- Berry, Nancy Jeanette Palo Alto
1 LS-2211 Atherton st
- Berry, Robert Henry Sacramento
1 Mec-2213 Bancroft way Bkly 1238
- Berry, Welcolm Oma Palo Alto
1 LS-2211 Atherton st
- Berryman, Wilma Anna Los Angeles
(1) 2 LS-2830 College av Bkly 1803
- Berteaux, Herbert LeCain Hollywood
2 Min-2251 Telegraph av Bkly 3471W
- Bertheau, Cesar Jordan San Francisco
4 LS-1815 Highland pl Bkly 1682
- Berthiaume, Harold Francis San Francisco
1 LS PreM-66 Cook st, S F Pac 1956
- Berwin, Bernice Helen Oakland
1 LS-1617 Grand av, O Pied 5855
- Beshlich, Dean Charles Oakland
1s Com-1224 Fruitvale av, O
- Best, Albert Oliver Keeler
1 Mec-2547 Channing way Bkly 4638
- Best, Arthur Le Roy Brawley
1 LS-2214 Dana st
- Best, Cecil Alvin Berkeley
4 LS-873 Arlington rd Bkly 7847
- Bestandig, Walter Milton San Francisco
1(1) 2 LS-1769 Turk st, S F Flmr 617
- *Betts, George Alfred Los Angeles
4 LS-2616 Virginia st Bkly 6716
- Betts, Katherine Huntington Los Angeles
4 LS-2731 Regent st Bkly 2075
- Betzner, Ruth Berkeley
1 LS-1940B Hearst av
- Bevier, Alden Edwin Morgan Hill
1 LS PreL-2424 Virginia st
Bkly 5249W
- Bevier, Margaret Giddings Morgan Hill
(1) 3 LS-1621 Scenic av Bkly 5102
- Bibbins, Arda Grant Berkeley
1 LS-50 Uplands Bkly 4149W
- Biddle, Charles T. Berkeley
2 CE-2633 Regent st
- Biddle, Madge Evelyn Los Angeles
1 LS-2515 LeComte av Bkly 4561
- Biddle, Margaret Alden Portland, Ore.
1 LS-Cloyne Court apts
- Biddle, William Wishart Berkeley
1 LS-2633 Regent st
- Biedenbach, Katherine Graydon Berkeley
3 Agr-2526 College av Bkly 5146W
- Biedermann, Alfred Thounne, Switzerland
1s CE-2621 Laguna st, S F Flmr 4715
- *Biehl, Albert George Berkeley
4 LS-2634 Bancroft way Bkly 1276
- Biernath, Bertha Olga San Francisco
3 LS-841 Golden Gate av, S F
Mrkt 6075
- Bigelow, Victor Allen Berkeley
2 LS-2333 Channing way Bkly 6062
- Biggs, Reginald Richmond
2 Com-2521 Channing way Bkly 9306
- Bilkey, Gertrude J. Oakland
3 LS-1125 Adeline st, O Lksd 2284
- Bill, Theodore Raoul San Leandro
1 LS-476 Estudillo av, S L SL 398W
- Bill, Salvatore Pittsburg
1 Chem-1331 Columbus av, S F
- Bingaley, Archibald S. Ft. Worth, Tex.
3 Mec-2717 Haste st Bkly 586
- Billington, Grant Eligh Oakland
4 Com-2412 Piedmont av Bkly 5098
- Bills, Fred J. Oakland
3 LS and 1 Juris-2334 E Fifteenth st, O
Frwl 211J
- Bills, Harold Cassidy Oakland
2 Mec-2627 Ridge rd Bkly 2541

- Binder, Charles Los Angeles
 2 Agr-2208 Ellsworth st Bkly 7912J
 Binkley, Margaretta C. Oakland
 2 LS-5975 Keith av, O Pied 1702
 Binney, John Oliver Los Angeles
¹1 Mec-Hotel Claremont Bkly 9800
 Binsacca, Samuel John Soledad
 8 Agr-University Farm, Davis
 Bird, Clare Edward La Jolla
 4 LS and 1 Med-2534 Ridge rd
 Bkly 2384W
 Bird, Fred Allison Melones
 1 LS PreM-2214 Union st Bkly 3483
 Bird, Ralph Wesley Melones
³3 Com-2401 Durant av Bkly 6504
 Birlew, Paul Egbert Pasadena
 3 Mec-1632 Euclid av Bkly 1170J
 Biro, Sydney Seymour San Francisco
 1 LS-1224 Second av, S F Snt 2355
 Birsosel, Dionisio Martinez Santa, Ilcos Sur, P. I.
 1 LS-1748 Polk st, S F Frkin 4120
 Bishop, Dorothy Herndon Phoenix, Ariz.
²(1) 3 LS-2221 Bancroft way Bkly 4647W
 Bishop, Edna Rosena Oakland
 4 LS-2428 Dwight way Bkly 4244W
 Bishop, Lester San Francisco
¹1 Agr-2628 Broderick st, S F
 Bishop, Mabelle Ernestine Helena, Mont.
 4 LS-2261 Shattuck av Bkly 2475
 Bishop, Maude Davis Piedmont
 (1) 3 LS-1715 Oakland av, P Pied 7710W
 Bishop, Ruby Isabelle Fort Bragg
 4 LS-2221 Bancroft way Bkly 4647W
 Bishop, Velma Estelle Berkeley
²1 LS-2519 Ridge rd Bkly 7614
 Bissinger, Edgar Stuart San Francisco
 2 Com-2199 Jackson st, S F Flmr 312
 Bitzer, Charles Gus Los Angeles
¹1 Com-Hotel Oakland Lkad 100
 Bixby, Katherine Long Beach
 (1) 3 LS-2725 Channing way Bkly 7950
 Bizzini, Nellie Delphina Guastine
 3 LS-2415 Durant av Bkly 7429
 Black, Frances Louise Oakland
 2 LS-602 El Dorado av, O Pied 753J
 Black, Garnett Oakland
²2 LS-5545 McMillan av, O Pied 2262
 Black, George Krebs Hemet
 2 CE-2234 Atherton st Bkly 4647J
 Black, John Harry Oakland
 2 LS-602 El Dorado av, O Pied 753J
 Black, Margaret Butler Anaheim
 1 LS-2300 Derby st Bkly 5502
 Black, Margaret Gladys Anderson
²2 LS-2434 Channing way Bkly 5957W
 Black, Marion Alice San Francisco
 4 LS-2721 Haste st Bkly 8800
 Black, Olney Strang Oklahoma City, Okla.
 1 LS PreL-2521 Hearst av Bkly 708
 Black, Seymore Roberts Berkeley
 1 CE-Hotel Cloyne Court Bkly 4710
 Blackburn, Thornton Godfrey Oakland
 2 LS PreM-644 Sixty-second st, O
 Pied 2108
 Blackman, Berneth Badger
 1 LS-2330 College av Bkly 1803
 Blackstock, Mildred Oxnard
 3 LS-2519 Ridge rd Bkly 7614
 Blair, Dorothea Berkeley
 4 LS-2747 College av Bkly 3774W
 Blair, Earl Murray Placerville
 4 Agr-2509 Regent st Bkly 3606J
 Blair, Edward Whittier Albany, Ore.
 4 LS and 1 Med-2425 Bancroft way
 Bkly 1743
 Blair, Erwin Welliver Long Beach
 (1) 2 Com-2717 Haste st Bkly 586
 Blair, John Orlando Iron Mountain, Mich.
 1 LS PreA-2215 Atherton st
 Blair, Lois Irene Dinuba
 2 LS-2615 Fulton st Bkly 6459
 Blair, Marjory Berkeley
 2 LS-2747 College av Bkly 3774W
 Blake, Beatrice S. Blossom Berkeley
 1 LS-2636 Warring st Bkly 2997W
 Blake, Dorothy Mae Portland, Ore.
 1 LS-179 Seventeenth av, S F Pac 2587
 Blakeslee, Lydia Marie Battle Creek, Mich.
²2 LS-2240 Dwight way Bkly 1318
 Blalock, Orville Oliver Berkeley
¹1 Mec-2117 Center st Bkly 6521
 Blanchard, Beatrice San Francisco
 4 LS-2405 Prospect st Bkly 6076
 Blanchard, Laurence Cleveland National City
 4 Mec-2409 Bowditch st Bkly 8437J
 Blanchard, Norman Kirk Santa Barbara
 2 LS PreA-2248 Telegraph av Bkly 9011
 Blanco, Margaret Elizabeth San Francisco
 1 Com-1745 Pine st, S F Frkin 9228
 Blankinship, Marian Louise Berkeley
 4 LS-2525 Hilgard av Bkly 6812
 Blatchley, Constance Marie Moorcroft, Wyo.
 (1) 2s LS PreM-2629 Haste st Bkly 3237
 Blayney, Charles Oberlin Fowler
 2 LS PreM-2508 Haste st Bkly 767
 *Blayney, Jay Irvin Berkeley
 4 LS-2329 Dwight way Bkly 2466J
 Bledsoe, Eugene Vincell Long Beach
¹(1) 2 Mec-2345 College av Bkly 62
 Blewett, James Joseph Los Angeles
¹1s LS-2601 Channing way Bkly 5904
 Bley, Irma Lillian San Francisco
²2 LS-3849 Jackson st, S F Flmr 1015

- Bliss, George Bates Berkeley
1 LS-2236 Cedar st Bkly 8593W
- Bliss, Grace U. Corona
3 LS-2485 Hilgard av Bkly 6406
- Bliss, Helen Margaret Napa
1 LS-1484 Scenic av Bkly 8314J
- Bliss, Irving Harcourt Watsonville
1 Mec-2200 Dwight way
- Bliss, William Berthel Oakland
2 CE-2605 Durant av Bkly 6981
- Bloch, Claire Irene San Francisco
1 LS-2420 College av Bkly 906J
- Blochman, Lawrence Goldtree San Diego
3 LS-2609 LeConte av Bkly 8886W
- Block, Louis Meyer Los Angeles
3 LS PreM-2127 Kittredge st Bkly 1896J
- Block, Mae Rockwood Long Beach
1 LS-2524 Benvenue av Bkly 5410J
- Blodgett, Hugh Carlton Zamora
(1) 2 LS 2411 Durant av
- Blohm, Henry Fred, Jr. Watsonville
2 Mec-2332 College av Bkly 1184
- Blomquist, Walter Herbert Metropolitan
1 LS PreL-2248 Fulton st
- Blondell, Aileen Marie Oakland
1 LS-632 East Fourteenth st, O Mer 2808
- Bloom, Margaret Ann Fresno
1 LS-2314 Haste st Bkly 4026
- Bloom, Marjorie Louise Los Angeles
1 LS-1621 Scenic av Bkly 5102
- Bloomberg, Sylvia Evelyn Los Angeles
(1) 3 LS-2428 Channing way Bkly 6408
- Bloomer, Margaret Dolores Los Angeles
2s LS-1802 LeRoy av Bkly 3466
- Bloomheart, Paul Anthony Oakland
2 Com-1080 Forty-first st, O Pied 6780W
- Blount, Arthur Leath San Francisco
2s Chem-171 Haight st, S F
- Blum, Harold Francis Los Angeles
3 LS-2435 Haste st Bkly 1980
- Blumb, Joseph Lee Berkeley
1s LS-2420 Durant av Bkly 8757J
- Blumann, Ethel Oakland
1 LS-3217 Davis st, O Frvl 480
- Blumenthal, Emil Leland
1 LS-2432 College av Philipaburg, Mont. Bkly 1044W
- Boag, Robert Mouthrop Hollywood
4 LS-2717 Hearst av Bkly 5770
- Boal, Edgar Dickinson National City
4 Agr-2601 Channing way Bkly 5904
- Boardman, Bernice Blanche Hughson
2 LS-2017 Lincoln av Bkly 4706J
- Boardman, Elsie Maud Oakland
21 LS-4633 Edgewood av, O Mer 1726
- Boardman, Faith Gladys Riverside
4 LS-2721 Channing way Bkly 808
- Boardman, Katharine Hanford Riverside
1 LS-1451 Eleventh av, O Mer 1709
- Bock, Charles James Pasadena
2s LS PreA-2015½ Hearst av
- Boden, Penelope Allen San Francisco
2 LS-2627 Hearst av Bkly 4009
- Boeck, Walter Ewell Hollywood
(1) 2 Chem-2832 College av Bkly 1184
- Boehme, Frederick Louis Ripon
3 LS PreM-342 Miramar av, S F
- Boehne, Frederick Irving Stockton
1 LS-2223 Atherton st Bkly 6680
- Boell, Verna Lucille Oakland
1 LS-388 Bellevue av, O Oakd 5692
- Boericke, Arthur Thacher San Francisco
2 Com-2415 Bowditch st Bkly 8650J
- Boerner, Louis Fink Atascadero
4 Mec-2409 Bowditch st Bkly 8487J
- Boesken, Constance Anna San Francisco
4 LS-2251 Telegraph av Bkly 3471W
- Boettler, Amalia Caroline St. Louis, Mo.
4 LS-2533 Chilton way
- Boge, Veldon Cecil Hillsboro, Ore.
2 Mec-2227 Dana st Bkly 1652W
- Boggs, Elizabeth Cara Highland Springs
3 LS-2330 College av Bkly 1803
- Boggs, John Cunningham Stockton
1 LS PreL-2518 College av Bkly 1092
- Bogle, Margaret Eleanor Los Angeles
1 LS-Eugene apts
- Bohannon, Geraldine Adeline Berkeley
3 LS and 1 Juris-1710 Grant st
- Bohnst, Howard Frederick Berkeley
28 LS PreL-2131 Ward st
- Bohnett, Merlin Joseph Aromas
1 Mec-2320 Dwight way Bkly 3851
- Boland, Honor Jane Los Angeles
1 LS-2249 College av Bkly 7035J
- Bolin, Carleton Harold Oakland
2 Mec-967 Fourteenth st, O Oakd 6814
- Bolin, Florence B. Berkeley
2(1) 3 LS-2550 Haste st Bkly 945W
- Bolles, Betsy Babcock Berkeley
3 LS-2312 Virginia st Bkly 1509J
- Bolles, Grosvenor Lyman Berkeley
3 LS-2316 Bowditch st Bkly 1416
- Bolton, Frances Latham Berkeley
24 LS-1526 Scenic av Bkly 5045J
- Bolton, George Ambrose Benicia
3 LS-2609 LeConte av Bkly 8836W
- Bolton, Helen Berkeley
2 LS-1526 Scenic av Bkly 5045J

- Bolze, Edward Henry, Jr. Sacramento
 3 LS PreM-1045 Leavenworth st, S F
- Bon, Johnson Healani Honolulu, T. H.
 2 Chem-730 The Alameda Bkly 6910J
- Bonds, Benjamin Harrison Columbus, Ohio
 (1) 2 LS-1918 Allston way
- Bonner, Marjorie Mae Berkeley
 4 LS-3115 Lewiston av Pied 6615J
- Bonner, Richard Lee Azusa
 (1) 2 Com-2114 Durant av
- Bonnet, Robert Lee, Jr. San Antonio, Tex.
 3 Com-2601 Durant av Bkly 23
- Bonorden, Allen Rudolf San Francisco
 4 LS-489 Moss av, O Pied 4422J
- Booke, Solomon San Francisco
 (1) 2 LS PreM-1263 Oak st, S F
- Booker, Virginia de Lorimier San Diego
 1 LS-2721 Haste st Bkly 8800
- Boone, Alfred Daniel San Pedro
 3 LS PreL-2528 Ridge rd Bkly 3500
- Boone, Mary Dorothy Red Bluff
 2 LS-1715 LeRoy av Bkly 2351
- Boone, William Pell Berkeley
 (1) LS-2817 Regent st Bkly 3966J
- Booth, Harold Paso Robles
 (2) LS PreM-2745 Wallace st
- Bopst, James Logan Kansas City, Mo.
 (1) 2 Mec-2425 LeConte av Bkly 4334
- Borchert, Harry Elbert Alameda
 (1) LS-1207 Benton av, A Ala 1499W
- Borders, Horatio Abbey Chicago, Ill.
 (1) 4 LS-2218 Dana st Bkly 3267
- Borillo, Leopoldo Bisguera Santa Barbara
 1 LS PreL-1822 University av
- Born, Ernest San Francisco
 2 LS PreA-1166 Haight st, S F
- Borromeo, Edilberto D. Philippine Islands
 (1) Mec-340 Nineteenth st, O
- Borum, Gail H. Selma
 4 LS PreM-1600 Walnut st Bkly 4620
- Borum, John Allen Selma
 2 LS PreL-1600 Walnut st Bkly 4620
- Bosso, Oliver Robert Oakland
 1s CE-4828 Telegraph av, O Pied 100W
- Bost, Aberhardt Crawford Alameda
 1 LS PreM-1400 San Jose av, A Ala 3768W
- Bost, Frederic Carroll Alameda
 1 LS PreM-1400 San Jose av, A Ala 3768W
- Bostick, Francis Xavier, Amite, La.
 3 LS-1500 Page st, S F Mrkt 8048
- Bostwick, Janet Stewart Mill Valley
 2 LS-2732 Channing way Bkly 7026
- Bosworth, Anna Gertrude Piedmont
 1 LS-17 Bonita av, P Pied 8441W
- Bothe, Clarita Talitha San Francisco
 2 LS-115 Belvedere st, S F Park 4981
- Botsford, Carol Harriette Los Angeles
 1 LS-Hotel Claremont Bkly 9300
- Bott, Corinne Meriem Fortuna
 3 LS-37 Mosswood rd Bkly 1209W
- Boucher, David Danville
 (3) Agr-2717 Hearst av Bkly 5770
- Boughton, Bernice Annie San Francisco
 (1) LS-430 Broderick st, S F Park 3039
- Boulton, Roger Clarence Etna Mills
 (2) Com-2525 Piedmont av Bkly 3679J
- Bourne, Charles Percy Berkeley
 1 Min-1404 Spruce st Bkly 2860J
- Bourne, Donald E. Berkeley
 3 Agr-2337 Blake st
- Boveroux, George Leonhard Oakland
 (1) LS PreA-365 Evelid av Oakd 1620
- Bowden, Clara Belle Briceland
 (1) LS-540 Vincente av Bkly 3910W
- Bowden, Helen Moscow, Idaho
 (1) 3 LS-2627 Channing way Bkly 6928W
- Bowen, Charles Corbin Stockton
 (1) 3 Com-2412 Piedmont Bkly 5098
- Bowen, Clark Augustus Oakland
 1 LS-601 Fifty-fourth st, O Pied 1031
- Bowen, Leon Luther Las Vegas, N. M.
 3 Mec-2647 Dwight way Bkly 5831
- Bowen, Lot Los Angeles
 1 CE-1730 La Loma av Bkly 8716
- Bowen, Robert E. Berkeley
 1 Agr-2409 Webster st Bkly 6874J
- Bowen, Russell Phelps San Diego
 1 Mec-2421 Virginia st Bkly 1171J
- Bowen, Ruth Elizabeth Berkeley
 1 LS-2409 Webster st Bkly 6874J
- Bowen, William Victor Santa Monica
 3 Mec-2647 Dwight way Bkly 5831
- Bower, Hubert Irwin Yreka
 1 Agr-2217 Fulton st
- Bowers, Marjorie F. Los Angeles
 1 LS-2643 Channing way
- Bowers, Raymond Charles Los Angeles
 (1) 2 Chem-2643 Channing way
- *Bowker, Frank B. Calexico
 4 Agr-1730 La Loma av Bkly 8716
- Bowles, Amasa Morse Petaluma
 2 LS PreM-427 Adams st, O Lksd 263
- Bowman, Ethel San Francisco
 (1) Com-161 Peoria st, S F Rndph 464
- Bowman, Leroy J. Missoula, Mont.
 4 LS-1633 Josephine st Bkly 3074
- Bowman, Octavia De Vance Houston, Tex
 2 LS-1222 Kirkham st, O Oakd 2471
- Bowman, Verda A. Winters
 2 LS-2721 Haste st Bkly 8800
- Boyakin, Eleanor Elizabeth Los Angeles
 2 LS-2417 Bancroft way Bkly 1445
- Boyarsky, Herman Oakland
 2 Com-1137 Linden st, O Lksd 4668

- Boyce, Gray Cowan Alameda
3 LS-1547 Versailles av, A Ala 1495
- Boyce, Marjorie Gray Alameda
3 LS-2241 Durant av
- Boyd, George Winn San Jose
4 LS-2521 Channing way Bkly 9806
- Boyd, Jessie Edna Anaheim
1 LS-2627 Hearst av
- Boyd, Mary Buffalo, N. Y.
1 LS PreM-2258 Piedmont av Bkly 5542J
- Boyden, John Marian San Francisco
12 LS-1726 Euclid av Bkly 6706
- Boyle, Annie Gertrude San Francisco
3 LS-155 Lowell st, S F Randolph 1875
- Boyle, George Frederick Yreka
18 Agr-2415 Durant av Bkly 7429
- Boyle, Robert Edward San Francisco
1 CE-155 Lowell st, S F Randolph 1875
- Boyle, Salome Elizabeth Berkeley
2 Com-2821 Bancroft way Bkly 1765
- Boynton, May Seilgwynn Berkeley
1 LS-2800 Buena Vista way Bkly 3000
- Boynton, Rhea Rey Berkeley
1 LS-2800 Buena Vista way Bkly 3000
- Boysen, Amy Ellen Lemoore
1 LS-1128 The Alameda Bkly 5657
- Boyum, Thelma Marie Hamakuspoko, Maui, T. H.
1 LS-2119 Addison st Bkly 5128W
- Braasch, Haidee M. Salt Lake City, Utah
1 LS-51 Oxford apts Bkly 1370J
- Bracken, Katherine V. San Francisco
11a LS-2528 Sutter st, S F West 6051
- Bradfield, Charles Clifford Macoun, Saskatchewan
2 Chem-2618 Durant av Bkly 2765
- *Bradford, Arthur Robert Los Angeles
4 Com-2647 Durant av Bkly 102
- Bradford, Florence Elizabeth Fresno
2 LS-2710 Channing way Bkly 9520
- Bradford, Lester Orville Prairie City, Ore.
13 Mec-2008 Grant st
- Bradford, Mildred Louise Los Angeles
1 LS-2632 Durant av Bkly 5137W
- Bradley, Clara Lee Mobile, Ala.
1 LS-1783 Marin Bkly 1388J
- Brady, George Elliott Fairfield
1 Com-1922 Oxford st Bkly 8031W
- Brady, Margaret Anna Tucson, Ariz.
11a LS-1841 Peralta av
- Braffet, James Harvey Salt Lake City, Utah
(1) 3 LS PreL-2538 Channing way Bkly 6201J
- Brake, Clement Bradley San Jose
13 Com-2625 Hearst av Bkly 9535
- Bramlage, Evan David Berkeley
1s LS and 1 Juris-1304 Milvia st Bkly 8551J
- Bramlage, Julia Antoinette Berkeley
1 LS-2819 Prince st Bkly 3714J
- Bramming, Vivian Ellery Encinitas
2 LS-2527 Ridge rd Bkly 6107
- Brand, Genevieve Luella Berkeley
1 LS-2526 Regent st Bkly 9253J
- Brand, George Sumner Glen Ellen
1 Mec-733 Nineteenth st, O
- Brand, Hervey Yale Berkeley
1 LS-2526 Regent st Bkly 9253J
- Brandewie, Estelle Rosalie Cincinnati, Ohio
1 LS-1517 Jones st, S F
- Brandstad, Brynhild Marie Stockton
1 LS-2627 Hearst av Bkly 4009
- Branstien, Joseph Manfred San Francisco
13 LS-2527 LeConte av Bkly 3498
- Brant, Ruth Estelle Riverside
(1) 3 LS-2741 Webster st Bkly 6812J
- Brasher, Evelyn Morris Los Angeles
2 LS-2141 Berkeley way Bkly 1596
- Braten, Sigrid Bozeman, Mont.
1 LS PreL-Hotel Claremont Bkly 9800
- Brattain, Eldon Marcellus Berkeley
1 LS PreL-1746 Oxford st Bkly 6681
- Brattain, Frances Agnes Oakland
2 LS-382 Alcatraz av, O Pied 4541 W
- Brattain, Virgil Blaine Lakeview, Ore.
3 LS PreL-1746 Oxford st Bkly 5690J
- Brauer, Ruth Adelaide Los Angeles
1 LS-2709 Channing way Bkly 8528
- Braun, William Magnus Napa
4 LS-1750 Bushnell pl Bkly 841
- Bravinder, Margaret Pasadena
2 LS-1535 Euclid av Bkly 4554
- Bray, Isabel Cement
1 LS PreL-2385 Warring st Bkly 6744
- Bray, Madeline Jennie Oakland
2 LS-5922 Taft av, O
- Brearty, Charles Ross Oakland
1 Mec-4315 Gilbert st, O Pied 2112J
- Breck, Lloyd Bugbee Oakland
1 LS PreL-168 Santa Rosa av, O Pied 1715
- Breckenridge, James Tennyson Boise, Idaho
1 Agr-2120 Kittredge st Bkly 2090
- Breckenridge, Malcolm Pettus St. Louis, Mo.
2 LS-Berkeley Inn Bkly 6370
- Breed, Elizabeth Haas Berkeley
13 LS PreA-2130 Durant av Bkly 6001W
- Breed, Rebecca Paulding Philadelphia, Pa.
(1) 2 LS-2627 Hearst av Bkly 4009
- Breedlove, Margaret Oakland
4 LS-2710 Channing way Bkly 9520
- Breen, Mary Margaret Oakland
11a LS-4212 Piedmont av, O Pied 7482J
- Breit, Joseph San Francisco
3 LS-162 Tenth av, S F Pac 4772

- Breitwieser, Albert Gustav, Jr. Susanville
1s Agr-2647 Durant av
- Brekke, Louise Sophia Berkeley
1(1) 4 LS-1817A Delaware st
- Brellin, Gus Adolf San Jose
4 LS-2521 Channing way Bkly 9306
- Bremner, Carl St. J. Santa Cruz
8 Min-2500 College av Bkly 5942
- Brenholts, Dorothy San Diego
1 LS-2525 Durant av Bkly 1969
- Brennan, James Edward Oakland
2 Com-5460 Roberts av, O Frvl 406J
- Brenton, Elmer Eugene, Ore.
(1) 4 Com-1526 Hawthorne ter Bkly 8662J
- Breslauer, Alfred Fisher San Francisco
4 LS and 1 Juris-2211 Fulton st Bkly 6045W
- Breslauer, Louise San Francisco
2 Com-1957 Hayes st, S F Pac 5728
- Breslin, Charles Cyril San Francisco
8 Com-135 Third av, S F Pac 6044
- Bresson, Louise Constance Riverside
1 LS-2228 Chapel st Bkly 4558
- Bretherton, Rachel I Berkeley
2 LS-3006 Colby st Bkly 5255W
- Brett, Gertrude Juanita Oroville
1 LS-2624 Virginia st Bkly 3668
- Brewer, Bernice Mills Manzanola, Colo.
(1) 8 LS-2019 Channing way Bkly 8429
- Brewer, Niron L. Sacramento
8 Agr-2382 College av Bkly 1134
- Brewer, William A., Jr. Burlingame
4 LS-2522 Ridge rd Bkly 5950
- Brewster, Edward Barnes Berkeley
1 LS-2509 Hearst av Bkly 1151W
- Brewster, Helen Adah Watsonville
2 LS-2531 Channing way Bkly 7068W
- Brewster, Helen Hally Oakland
8 LS-1940 Ninth av, O Mer 209
- Brickell, Dellilah Sacramento
1 LS-2515 LeConte av
- Bricker, David Jennings Arcadia
1 LS-1813 Bonita av Bkly 2929J
- Bricker, Samuel Auld Arcadia
(1) 8 LS-1813 Bonita av Bkly 2929J
- Bridge, Florence Adele Los Angeles
4 LS-2526 Hilgard av Bkly 1441
- Bridge, Helen Howard Belvedere
1 LS-2732 Channing way Bkly 7026
- Bridges, Francis Wilson Oakland
2 Com-2628 Benvenue av Bkly 4895J
- Bridges, Harriette Wilson Oakland
2 LS-2628 Benvenue av Bkly 4895J
- Bridges, Thelma R. San Jose
1 LS-1755 San Pedro av Bkly 4945J
- Brier, Fyrne Turlock
8 LS-2211 Atherton st Bkly 2744W
- *Brier, Helen Naylor Los Angeles
4 LS-2635 Hillegass av Bkly 2491J
- Briggs, Donald Allen Sacramento
1s CE-2332 College av Bkly 1134
- Briggs, Elmer Hague San Francisco
1 Chem-8042 Sacramento st, S F Flmr 2974
- Briggs, Florence Sherman Oakland
8 LS PreL-2732 Channing way Bkly 7026
- Briggs, Walter De Blois Berkeley
1 LS-2420 Ridge rd Bkly 223
- Bright, Vera Jones Berkeley
1s LS-2719 Webster st Bkly 7678J
- Brillhart, Harold Eveline Martinez
2 Com-1189 Arch st Bkly 3797J
- Briner, Charles Conrad Jackson, Mich.
4 LS PreM-2528 Ridge rd Bkly 3500
- Brinkmeyer, Caroline Emily Prescott, Ariz.
2 LS-2520 Virginia st Bkly 7247
- Brisacher, Harry Los Angeles
1s LS-General Delivery
- Brissenden, Richard Bosworth Berkeley
8 Com-2417 Bancroft way Bkly 1445
- Bristol, Pearl E. M. Long Beach
2 LS-2701 Telegraph av
- Brite, Ruby Bakersfield
4 LS-2417 LeConte av Bkly 5650
- Brittain, Frank Walshe San Francisco
2 Mec-2120 Kittredge st Bkly 2090
- Brittain, Hatherly Piedmont
1 LS-120 Blair av, P Pied 2405
- Brittingham, Albert Arnold Los Angeles
1 Chem-1815 Highland pl Bkly 1682
- Brittingham, George Riddock Oakland
1 LS-2401 Durant av Bkly 6504
- *Britton, Helen Los Angeles
4 LS-2710 Channing way Bkly 9520
- Britton, Lloyd Rutledge Williams
1 Agr-2039 Shattuck av Bkly 4929
- Brizard, Alexander Ingersoll Arcata
8 Agr-2338 College av
- Broadbelt, Robert Bruce Highland
1 Mec-2251 College av Bkly 9107
- Broadbuss, Beverly G. Ukiah
1 Mec-2276 Shattuck av Bkly 8300
- Brock, Lois Holmes Berkeley
1 LS PreM-701 The Alameda Bkly 7378W
- Brockway, Dorothy Maude Brockway, Mont.
2 LS-2519 Ridge rd Bkly 7614
- Brockway, James McCormic Brockway, Mont.
1 Mec-2314 Dwight way Bkly 7654W

- Brodsky, Aaron San Francisco
 2 Chem-2228 Union st Bkly 2468W
 Broch, Claire Berkeley
 *1 LS-2220 Rose st Bkly 2860W
 Broman, Edla Esther Berkeley
 4 LS-1141 Allston way Bkly 2876J
 Bromley, Fannie Levering Sonora
 8 LS-2721 Channing way Bkly 808
 Bromley, Innis Mansfield Sonora
 *8 Mec-2605 Durant av Bkly 552
 Brommage, Raymond Earl Alameda
 *1 Mec-2418 Lincoln av, A Ala 86
 Brookes, Kenneson Hovey Delano
 1 Mec-2647 Dwight way Bkly 5881
 *Brooks, Clara Helen Los Angeles
 4 LS-24 Panoramic way Bkly 6695J
 Brooks, Earl A. Visalia
 *(1) 2 LS-2028 Delaware st Bkly 1046
 Brooks, Fred Los Angeles
 4 LS-2713 Haste st Bkly 78
 Brooks, Joseph Homer Lead, S. D.
 1 Com-2307 Hearst av
 Brophy, Stephen Lawrence Oakland
 2 Com-1612 Twenty-seventh av, O
 Frvl 2051W
 Brosa, Eugene Olin Parlier
 1 Chem-2627 Ridge rd Bkly 2541
 Broske, Minnette Bernice Alameda
 *2 LS-778 Eagle av, A
 Brott, Bernice Loring Oakland
 *(1) 2 LS-2044 Franklin st, O
 Oakd 8912
 Brown, Adelaide C. San Francisco
 *1s LS-1175 Pine st, S F Papt 5730
 Brown, Alberta Porterville
 *1 LS-2632 Haste st Bkly 1033W
 Brown, Alice Mary Berkeley
 8 LS-2431 McGee av Bkly 2973J
 Brown, Andrew Los Angeles
 (1) 2 Com-2601 Channing way
 Bkly 5904
 Brown, Arthur Giddings Riverside
 1 Agr-2600 Durant av
 Brown, Austin Gould La Jolla
 1 LS-2625 Hearst av Bkly 9535
 Brown, Bradley Belknap San Francisco
 4 Mec-1815 Highland pl Bkly 1682
 Brown, Crystal Marie Grimes
 *8 LS-2731 Regent st Bkly 2075
 Brown, De Lano Anessa Berkeley
 1 Mec-1815 Bonita av Bkly 5085J
 Brown, Dorothy Kingston, N. Y.
 1 LS-1524 Arch st Bkly 1421
 Brown, Dorothy Beatrice Oakland
 *1 LS-2542 Tenth av, O Mer 4589
 Brown, Dorothy Donleigh Upper Lake
 1 LS-2580 Ridge rd Bkly 7084
 Brown, Earle McKenzie El Paso, Texas
 8 Mec-2128 Hearst av
 Brown, Ethyl Emily Oakland
 *2 LS-301 Alta Vista av, O Pied 5128W
 Brown, Frances L. Piedmont
 *2 LS-2710 Channing way Bkly 9520
 Brown, Gertrude Evelyn Oakland
 2 LS-2125 Twenty-seventh av, O
 Frvl 2858J
 Brown, Helen Elizabeth San Francisco
 *1 LS-133 Baker st, S F Park 1956
 Brown, Henry F. Covina
 2 Mec-2329 Webster st Bkly 2751
 Brown, Horace Clindinin Oakland
 *1 LS-2717 Hearst av Bkly 5770
 Brown, Janet Edith San Francisco
 1 LS-2710 Channing way Bkly 9520
 Brown, Jefferson Irene San Francisco
 *1s LS-1429 Seventh av, S F Snst 1089
 Brown, Joseph Harold Woodland
 8 Com-2627 Ridge rd Bkly 2541
 Brown, Josephine Moscow, Idaho
 (1) 8 LS-2704 Channing way
 Bkly 6814J
 Brown, Julius Gailey Raisin
 2 Chem-2809A Bancroft way Bkly 7461
 Brown, Katharyn Aguila Santa Barbara
 4 LS-2617 Haste st Bkly 2965J
 Brown, Kenneth Leslie Berkeley
 1 Com-3024 Stanton st
 Brown, Lawrence Augustus Berkeley
 *8 OE-1711 Euclid av Bkly 8378
 Brown, Lawrence Lacy San Bernardino
 2 Agr-2248 Telegraph av Bkly 9011
 Brown, Lennox Tacoma, Wn.
 1 LS PreM-4317 Gilbert st, P Pied 6019
 Brown, Leoline Hollywood
 1 LS-2710 Channing way Bkly 9520
 Brown, Leon San Pedro
 8 LS-2529 Ellsworth st Bkly 6886
 Brown, Lloyd Lancaster Oakland
 2 LS-1037 Oakland av, P Pied 5941J
 Brown, Lloyd Noble Oakland
 4 Agr-1627 E. Twenty-first st, O
 Brown, Lucille Ynez Santa Maria
 4 LS and 1 Med-2736 Haste st
 Bkly 8680
 Brown, Marian Elizabeth Sonora
 2 LS-2531 Channing way Bkly 7068W
 Brown, Maurice Joseph South Bend, Wn.
 *1 LS PreM-1942 Channing way
 Bkly 4845J
 Brown, Merrill Everitt Oakland
 2 LS PreM-828 Fifteenth st, O
 Lkad 4176
 Brown, Nathan Burns, Ore.
 *8 Min-2307 Hearst av Bkly 6815
 Brown, Persons Walker San Lorenzo
 8 Min-1711 Euclid av Bkly 3378
 Brown, Phyllis Santa Rosa
 4 LS-2515 Vine st Bkly 5529W

- Brown, Phyllis Rogers Berkeley
1 LS-2824 Cherry st Bkly 2638
- Brown, Richard Irwin Watts
1 Min-2314 Channing way Bkly 6041J
- Brown, Roberts Lodi
2 LS-2811 Regent st Bkly 808W
- Brown, Samuel Lloyd Fresno
2 Min-2316 Bowditch st Bkly 1416
- Brown, Stanford B. Walnut Grove
3 Com-2647 Durant av Bkly 102
- Brown, Thelma Ivy Fairfield
(1) 2 LS-2509 College av Bkly 7844J
- Brown, Thomas Los Angeles
2 LS-2330 Telegraph av Bkly 9227
- Brown, Verne Calvin Des Moines, Iowa
1 LS-2226 Haste st Bkly 4227W
- Brown, Volney Vernon Los Angeles
2 LS-2717 Hearst av Bkly 5770
- Brown, Warren Vallejo
2(1) 3 LS-289 Surrey st, S F
- Brown, Willard Neal El Paso, Tex.
3 Agr-5654 Broadway Pied 3152J
- Brown, William Wylie Los Angeles
3 LS and 1 Juris-2538 Durant av
Bkly 8361W
- Brown, Willis Carson Oakland
1 Com-479 Thirty-fourth st, O
Pied 6334W
- Browne, Ashley Colt Palo Alto
(1) 3 Agr-2521 Hearst av Bkly 708
- *Browne, Edwin Chalmers Boulder Creek
2 LS-1919 Bancroft way Bkly 6342J
- Browning, Erma Birdine Sierra Madre
4 LS and 1 Med-2421 Durant av
Bkly 1503W
- Browning, Robert Edwyn Strathmore
2 Com-1730 La Loma av Bkly 8716
- Broyer, Nathaniel San Francisco
1 Com-1355 Geary st, S F West 2846
- Bruce, Oscar Herbert Hemet
13 Agr-2330 Haste st Bkly 423W
- Bruce, Viva Eva San Francisco
2 LS PreM-2524 LeConte av Bkly 2531
- Bruckman, Fred Sweet Los Angeles
3 LS-1726 Euclid av Bkly 6706
- Bruckman, Robert Leslie Los Angeles
1 LS-112 Seventh st, S F Prkn 461
- Bruckner, Charlotte San Francisco
21 Com-65 Carmelita st, S F Park 4071
- Bruckner, Esther Dorothy San Francisco
3 LS-65 Carmelita st, S F Park 4071
- Brumwell, Muriel King City
1 LS-2627 Hearst av Bkly 3229
- Bruno, Howard Walter Berkeley
13 Com-2420 Sacramento st
- Bruner, Allison Watkins San Leandro
1 LS PreL-359 Ward st, S L S L 348J
- Brunig, Helen Diantha Kansas City, Mo.
(1) 3 LS-2531 Channing way
Bkly 7068W
- Bruno, Ellen Hildur Los Angeles
(1) 3 LS-2534 Bancroft way Bkly 8325J
- Brush, Jared Perkins Berkeley
1 Com-2439 Woolsey st Bkly 8079W
- Brusher, Mary Philomene Oakland
4 LS-2253 E. Twentieth st, O
Frvi 922W
- Brussolo, Vito A. San Francisco
4 Min-825n Filbert st, S F
- Bryan, Darwin Suisun
1(1) 3 Min-3515 Grove st, O Pied 6826
- Bryan, Elwood Smith Isleton
3 Agr-2607 Hearst av Bkly 5913
- Bryan, Gertrude Ann Isleton
4 LS-2523 Ridge rd Bkly 4564J
- Bryan, Helen Hope Oakland
1 LS-1525 Wellington av, O Mer 8625
- Bryan, Mary Alice El Paso, Tex.
11 LS-2624 Virginia st Bkly 3663
- Bryant, Gardner William Hollywood
(1) 2a LS-2717 Hearst av Bkly 5770
- Bryant, Hubert William Fresno
1 LS PreL-2785 Benvenue av Bkly 1887
- Bryson, Richard Parker Berkeley
24 Com-2620 Bancroft way Bkly 8870
- Bryte, George Joseph, Jr. Sacramento
12 LS-2620 Bancroft way
- Buben, Augusta Marie Alameda
3 LS-1224 Park av, A Ala 3592W
- Buckmaster, Nathaniel Helena, Mont.
21 Mec-2535 Channing way
- Buchanan, Helen Evelyn Durango, Colo.
1 LS-2524 LeConte av Bkly 2531
- Buchanan, Mowry Stuart Lindsay
3 LS-2516 LeConte av Bkly 8478J
- Buchanan, Norine Pittsburg
1 LS-2739 Bancroft way Bkly 204
- Buck, Eva Rosina Los Angeles
1 LS-2207 Atherton st Bkly 4208W
- Buck, George Faunce, Jr. Stockton
3 LS-2330 Telegraph av Bkly 9237
- Buck, Mary Martha Oakland
11 LS-8415 Market st, O Pied 8643
- Buck, Parker Jack San Francisco
11 Agr-844 Fell st, S F
- Buck, Thomas Barnes Stockton
11 CE-2304 Telegraph av Bkly 3428
- Buckalew, Harry Learn Berkeley
1 Chem-2408 South Atherton st
Bkly 3330W
- Buckham, Sidney Hickok Berkeley
1 CE-36 Panoramic way Bkly 5822
- Buckingham, George Luchsinger San Francisco
3 Mec-1730 La Loma av Bkly 8716
- Buckingham, Henry Procter San Francisco
4 LS PreM-2528 Ridge rd Bkly 3500
- Buckland, Ruth Maxine San Francisco
4 LS-4180 Army st, S F Valen 4086

- Buckley, Maurice Alexander Campbell
1 LS PreA-2417 Bancroft way Bkly 1445
- Buckley, Milton Chester Oakland
2 LS-2634 Bancroft way Bkly 1276
- Buckmaster, Nathaniel Helena, Mont.
21 Mec-2535 Channing way
- Buckner, Nellie Myrtle Fredericktown, Mo.
21 LS-478 Everett st, El Cerrito
- Budge, Jean Medford, Ore
4 LS-2725 Channing way Bkly 7950
- Buehrer, Etelka Eva Berkeley
1 LS-2400 Dwight way
- Buell, Vernon Cecil Berkeley
12 Chem-1634 McGee av Bkly 1880W
- Buffington, Elizabeth Ross San Francisco
4 Agr-2732 Channing way Bkly 7026
- Buffum, Mildred Oakland
1 LS-525 Kempton av, O Oakd 7338
- Bujannoff, Lubov Maria San Francisco
2 LS-1711 Broderick st, S F Fm 1148
- Buletti, Margherita Elizabeth Alhambra
1 LS-1101 Battery st, S F
- Bulgakoff, Nicolai Peter Moscow, Russia
1 Mec-2635 Channing way Bkly 1895
- Bull, Alpheus San Francisco
1 LS-2522 Ridge rd Bkly 5950
- Bullitt, Elizabeth Roland San Jose
2 LS-2728 Durant av Bkly 9531
- Bullitt, Louis Ralston San Jose
1 Com-2601 Channing way Bkly 5904
- Bullock, John D. Fort Atkinson, Wis.
4 Com-2627 Ridge rd Bkly 2541
- Bumgarner, John Waldo Bakersfield
2 LS PreM-806 Bisset st, R Rchd 33 R2
- Bump, Cecil Allouise Oakland
2 LS-3765 Piedmont av, O Pied 6617W
- Bundy, Ethel Gwendolyn Detroit, Mich.
1 LS-3301 Claremont av Bkly 8749J
- Bunnell, Irene Mildred Portland, Ore.
1 LS-2645 Benvenue av Bkly 6291J
- Bunting, Thomas Bowne Hammoncton
11 Mec-2431 Dana st Bkly 547W
- Burbank, Hildred Anderson
2 LS-1547 Euclid av Bkly 6681
- Burbank, Mildred Joyce San Francisco
2 LS-Hotel Plaza, S F Sutr 7200
- Burbridge, Isabel Mary Medford, Ore.
21 LS-2611 Virginia st Bkly 1187J
- Burch, James William Lemoore
21 LS PreM-2247 Atherton st
- Burchard, Avis Berkeley
2s LS-1505 Arch st Bkly 1182
- Burchardi, Christina Frederica Solvang
1 LS-1930 Eldorado av
- Burchell, Irvin Milton Le Grand
2 Agr-1704 Monterey av Bkly 5662J
- Burchell, Mildred Ethel Berkeley
4 LS-1704 Monterey av Bkly 5662J
- Burchfiel, Hugh Lee Berkeley
1) 2 LS-2303 Durant av Bkly 3708W
- Burden, Melba Claire Sonoma
1 LS-2530 College av Bkly 7875J
- Burdick, Sherman Roland Big Pine
- Burdorf, Eleanor L. Fullerton
4 LS-2749 Dwight way Bkly 6444
- Burford, Edward Alvin San Mateo
21 Mec-2617 Durant av
- Burford, Wilbur Keller Juneau, Alaska
2 Com-2617 Durant av Bkly 822
- Burgess, Clarence Ralph Long Beach
1 Mec-1540 Spruce av
- Burgess, Lloyd Edward Stockton
1 Mec-2120 Kittredge st Bkly 2090
- Burgess, Sullivan San Fernando
3 LS-2501 Ridge rd Bkly 1335
- Burke, Charles Austin Tiburon
2 LS PreL-2627 Ridge rd Bkly 2541
- Burke, Elizabeth San Francisco
3 LS-2723 Durant av Bkly 5931
- Burke, Helen San Diego
4 LS-2241 Durant av Bkly 1627W
- Burke, Mary Margaret San Diego
11 LS-2400 Piedmont av Bkly 5224
- Burke, Robert Wallace Los Angeles
21 Com-2607 Hearst av Bkly 5913
- Burkhard, William John Emmett, Idaho
3 Com-2508 Haste st Bkly 767
- Burland, Frank Steuben San Francisco
2 LS PreL-2601 Channing way Bkly 5904
- Burleson, Ambrose Lee Marysville
1s Mec-475 Rose st, O
- Burmister, Robert Gage San Francisco
3 LS-2426 Virginia st Bkly 564
- Burnand, Katryn Ann Los Angeles
1 LS-2725 Channing way Bkly 7950
- Burnham, Clark James, Jr. Berkeley
2 Agr-1750 Bushnell pl Bkly 841
- Burnside, John Pearce Corning
3 LS PreL-2419 Durant av Bkly 3362
- Burntrageo, Lynne Los Angeles
1) 3 LS-1719 Euclid av Bkly 7844J
- Burpee, Donald Adams Oakland
12 LS-2607 Hearst av Bkly 5913
- Burrall, Edward Lee Los Angeles
2 Mec-2625 Hearst av Bkly 9535
- Burrell, Charlotte Louise Hollywood
1 LS-2400 Piedmont av Bkly 5224

- Burrell, Gates Underwood Orland
2 LS-2229 Channing way Bkly 1221J
- Burrell, Grace Whitfield Fort Worth, Tex.
(1) 2 LS-2538 Channing way Bkly 5972
- Burrell, Howard Leslie Los Angeles
8 LS PreL-2345 College av Bkly 62
- Burrell, Nan Kierstedt Butte, Mont.
1 LS-2710 Channing way Bkly 9520
- Burrell, Paul Durant Orland
1 (1) 2 Chem-2229 Channing way
Bkly 1221J
- Burrill, Elbert Fielding Long Beach
8 LS PreL-2711 Parker st
- Burrill, Paul Dorham Berkeley
1 LS-2711 Parker st
- Burroughs, Edgar Wales Agnew
1s LS PreM-2221 Dwight way
Bkly 464W
- Burson, Elsie Myrtle Ventura
1 LS-2335 Warring st Bkly 6744
- Burt, Cora Mill Valley
3 LS-2435 Hilgard av Bkly 6406
- Burt, Eltnor Mill Valley
8 LS-2435 Hilgard av Bkly 6406
- Burt, Miriam Casad Berkeley
8 LS-1829 Walnut st Bkly 682
- Burton, Alice Irene Oakland
1s LS-391 Adams st, O Oakd 6770
- Burton, Flora Pomona
(1) 2 LS-2627 Hearst av Bkly 3229
- Burton, Hugh Harrison Pomona
4 Com-1730 La Loma av Bkly 8716
- Burwell, Olive Cynthia Alameda
3 LS-2308 Haste st Bkly 5567
- Bury, Elizabeth Carol San Francisco
1 LS-1551 Vallejo st, S F Frkn 4962
- Busch, Albert Hays Los Angeles
2 LS-2330 Telegraph av Bkly 4229
- Busche, Grace San Francisco
1 Com-20 Franklin st, S F Mrkt 4620
- Bush, Chandos Everett San Francisco
2s LS and 1 Juris-2717 Haste st
Bkly 586
- Bush, Gavien Fred, Jr. Honolulu, T. H.
1 Chem-2500 College av Bkly 5942
- Bush, Le Roy Cagwin Honolulu, T. H.
4 Mec-2500 College av Bkly 5942
- Bushnell, Winslow Dreiske Summerland
3 Com-2509 Parker st Bkly 8274J
- Busse, Frank Louis Alameda
8 Mec-2425 LeConte av Bkly 4834
- Butcher, Harriet Ernestine Carmel
1 LS-2628 Channing way Bkly 6928J
- Butcher, Ova May Carlsbad, N. M.
1 LS-2815 Regent st
- Buteau, Helene Marjory Palo Alto
12 LS-55 Sea View av, P Pied 4505W
- Buterbaugh, Marc Wesley Oakland
2 LS-1726 Euclid av Bkly 6706
- Butler, Beulah Berkeley
2 LS-1141 Oxford st Bkly 3159
- Butler, Charles Orville Hanford
8 Agr-2527 Ridge rd Bkly 6107
- Butler, Jack California Sacramento
2 LS PreL-2501 Ridge rd Bkly 1385
- Butler, John Washington San Francisco
3 Mec-2620 Bancroft way Bkly 8870
- Butler, Lauretta Bisbee, Ariz.
4 LS-2520 Virginia st Bkly 7247
- Butterworth, Harold Hunter Pasadena
1s Com-2618 Durant av
- Buttler, Robert Oromonde Oakland
2 LS PreL-2321 Telegraph av, O
Oakd 8475
- Buttner, Edgar Louis Martines
3 Mec-1533 Walnut st Bkly 6849J
- Buttolph, Albert Charles, Jr. Pasadena
4 LS-2426 Virginia st Bkly 564
- Button, Allyn Capron Hood River, Ore.
1 Com-486 Sixtieth st, O Pied 7542W
- Buyko, Anton San Francisco
2 LS PreA-2707 Virginia st Bkly 7896
- Byler, Dorothy Adeline North Bend, Ore.
1 Com-2315 Dwight way Bkly 4026
- Byler, Horace Turpen North Bend, Ore.
1 Mec-2315 Dwight way
- Byler, Raymond Earl Chewelah, Wn.
1 LS-2606 Bancroft way Bkly 2617
- Byrne, Christopher Lloyd Crescent City
1 Agr-1827 San Jose av, A
- Byrne, George Griffing Santa Cruz
4 Agr-220 Golden Gate av, S F
Frkn 461
- Byrne, Gertrude Mabel Santa Cruz
1 LS-2530 Ridge rd
- Byrne, Hugh Paul Oakland
1 Agr-881 Fifth av, O
Mer 2017
- Byrne, Mary Virginia Berkeley
1 LS-2500 Durant av Bkly 4539W
- Cabangbang, Catalino Manila, P. I.
(1) 3 LS-2039 Shattuck av Bkly 4929
- Cabanias, George Henry, Jr. San Francisco
2 LS PreL-2146 Ninth av, S F
Snst 1892
- Cadle, Evelyn Sacramento
1 LS-2709 Channing way Bkly 8528
- Cagle, Charles Allen Dixon
1 Chem-Richmond Main 1035
- Cain, Glenn Russell Richmond
1 Agr-153 S Fourth st, R
- Caine, Hooper Oakland
1 LS PreL-2521 Hearst av Bkly 706
- Calden, Guy Cecil, Jr. Oakland
8 LS-2607 Hearst av Bkly 5913
- Caldwell, Avis Alturas
1 LS-2821 Bancroft way Bkly 1765
- Caldwell, Hildreth Mosher Berkeley
4 LS PreM-1553 LeRoy av Bkly 4178W

- Caldwell, Susie Wade Smithville, Mo.
 (1) 8 LS-2606 Dwight way Bkly 139
 Calkins, Elizabeth Mary Berkeley
 2 LS-Berkeley Inn
 Calkins, Lois Ethel Yreka
 1 LS-2627 Hearst av. Bkly 4009
 Calkins, Philip Randall Berkeley
 2 LS-1711 Euclid av Bkly 3378
 Call, Ethel May Monterey
 1 LS-1370 Twenty-fourth av, S F
 Snat 3547
 Callaghan, Bernard Joseph Redlands
 1 Chem-4191 Seventeenth st, S F
 Mrkt 9378
 Callaghan, Charles Wheeler Oakland
 1 Chem-1808 Fruitvale av, O
 Frvl 1381W
 Callaway, Fred Dolores San Francisco
 (1) LS-3116 Sixteenth st, S F Mrkt 863
 Callison, Cecil Liliane Oakland
 1 LS-578 Thirtieth st, O Lksd 2758
 Camblin, Ruby Marie Riverside
 4 LS-1336 Grand av, P Pied 7914W
 Cameron, Donald Sonoma
 1 Mec-2234 Atherton st Bkly 4647J
 Cameron, Dorothy Hillard Borosolvay
 3 LS-Berkeley Inn
 Cameron, Margaret Gray Pasadena
 (1) 3 LS-2534 Bancroft way Bkly 8325J
 Cameron, Sidney Herbert Sonoma
 2 Agr-2234 Atherton st Bkly 4647J
 Camp, Arthur Forrest Rivera
 (1) 4 LS-2418 Ellsworth st Bkly 8155W
 Camp, Helen B. O'Neil Raleigh, N. C.
 (1) LS-1631 La Vereda st Bkly 7229W
 Campbell, Claire Marie Flagstaff, Ariz.
 (3) LS-Euclid apts Bkly 1884J
 Campbell, Colin Clyde Truckee
 2 Mec-1730 La Loma av Bkly 8716
 Campbell, Douglas Argyle Oakland
 4 LS and 1 Juris-1380 Myrtle st, O
 Oakd 7222
 Campbell, Earl Cleveland Medford, Ore.
 1 LS-1514 Alice st, O Oakd 7971
 Campbell, Edith Belle Fullerton
 4 LS-2749 Dwight way Bkly 6444
 Campbell, Eleanor Gladys Berkeley
 2 LS-2815 Claremont blvd Bkly 8828
 Campbell, Ensley John Orange
 4 Agr-2248 Telegraph av Bkly 9011
 Campbell, Forest Leeper San Francisco
 4 Min-2316 Bowditch st Bkly 1416
 Campbell, James Bryan Eureka
 (4) Chem-4903 Telegraph av, O
 Campbell, Lindsay Berkeley
 2 LS-2214 Los Angeles av Bkly 8880W
 Campbell, Marion Elizabeth Ontario
 (1) 8 LS-2515 LeConte av Bkly 4561
 Campbell, Mervyn Fitch Salinas
 (4) LS-2616 Virginia st Bkly 6716
 Campbell, Robert Orange
 1 Agr-2248 Telegraph av Bkly 9011
 Canfield, Mary Merle La Hobra
 1s LS-129 Haight st, S F
 Canfield, Orville McKinley Chico
 1 Agr-2646 Dwight way Bkly 4104
 Cannon, Milner Vennerstrom Carmel
 4 LS-1631 La Vereda av Bkly 7229W
 Cannon, Walter Dewitt, Jr. Guerneville
 (1) Mec-2419 Durant av Bkly 3362
 Cantelow, Elbridge Miles Berkeley
 4 LS-2634 Bancroft way Bkly 1276
 Cantlen, James Samuel San Francisco
 2 Mec-830 Alvarado st, S F Man 3787
 Capp, Charles Stilwell San Francisco
 3 LS PreM-2507 Channing way
 Bkly 3359W
 Capps, Eva Mary Denmark, Ore.
 1 LS-2335 Warring st Bkly 6744
 Carballo, Ernesto Jalandoni Holllo, P. I.
 (3) LS-1822 University av
 Carbonell Salvador Binalonan, P. I.
 (2) Agr-2437 Warring st
 Cardoza Lenus John Newman
 1 LS-2228 Dana st Bkly 1058
 Cardwell, Nancy Esther Chowchilla
 4 LS-2432 Grant st Bkly 8105J
 Carey, Donald Agassiz Berkeley
 2 Agr-2611 Keith av Bkly 6592J
 Carey, Dorothy Beharrell Berkeley
 3 LS-2611 Keith av Bkly 6592J
 Carey, Lester Cornelius Los Angeles
 2 LS-2521 Hearst av Bkly 708
 Carey, Wagar Grant, Jr. Westley
 (1) 3 LS-2325 Dana st Bkly 8388W
 Carithers, William Robert Santa Rosa
 1 LS-2620 Bancroft way Bkly 8710
 Carkeet, Dorothy Mae San Francisco
 1 LS-2538 Channing way Bkly 5972
 Carlin, Marie Margaret Berkeley
 1 LS-2535 Grant st Bkly 7949W
 Carlisle, Stevens Leslie Oakland
 (1) LS PreM-857 Twelfth st, O
 Oakd 7418
 Carlsen, Grover Cleveland Oakland
 (4s) LS PreL-1434 Twenty-seventh av, O
 Frvl 1156W
 Carlson, Carl Victor Riverside
 4 Com-2109 Shattuck av Bkly 9310
 Carlson, Edna Adeline Patterson
 (2) LS-2116 Oxford st
 Carlson, Emil Joseph Fresno
 4 LS PreL-2248 Telegraph av Bkly 9011
 Carlson, Florence Elfreda Anaconda, Mont.
 2 LS-2721 Channing way Bkly 808
 Carlson, Sutton William Oakland
 2 LS-1723 Fifth av, O
 Carlson, Walter Edward Hayward
 1 Mec-R. 2, Box 353, Hayward

Carmichael, Charles Hiram	Livingston	Carson, Joe Ramsey	Berkeley
3 Min-2605 Durant av	Bkly 6981	3 LS-2501 Kidge rd	Bkly 1335
Carmichael, Frank Paul	Marysville	Carson, William Thomas	Hughson
*1 LS PreL-2276 Shattuck av	Bkly 8300	*2 Min-2411 Carlton st	Bkly 4123
Carmichael, Lucile	Livingston	Carter, Alice Margaret	Berkeley
1 LS-2721 Channing way	Bkly 808	1 Com-2401 Blake st	
Carnahan, Elizabeth Wood	Pasadena	Carter, Edna Bryan	Bakersfield
4 LS-2519 Ridge rd	Bkly 7614	*1s LS-2726 Telegraph av	
Carncross, Marion Allen	Long Beach	Carter, Esther May	San Diego
2 LS-Oxford apts		(1) 3 LS-2627 Hearst av	Bkly 4009
Carpenter, Bernard David	Willows	Carter, Frances Marie	Monrovia
*1s Mec-1512 Bonita av		4 LS-2515 LeConte av	Bkly 4561
Carpenter, Eugene Percy	Woodlake	Carter, Frank Bolingbrooke	Monrovia
1 Mec-2234 Haste st	Bkly 149W	1 LS-2333 College av	Bkly 1722
Carpenter, Hazel Marion	Salinas	Carter, Joseph Madelyn	Fallon, Nev.
1 LS-1814 Derby st	Bkly 2017W	1 LS-2511 Channing way	Bkly 3121J
Carpenter, Isabel	Redlands	Carter, Kenneth Lawrence	Oakton
(1) 3 LS-2318 Telegraph av	Bkly 5964	*1 Chem-2122 Bancroft way	Bkly 5695W
Carpenter, Lenora Emily	Willows	Carter, Lester W.	Thermopolis, Wyo.
1 LS-2547 Piedmont av		*1(1) 3 Min-1543 Harrison st. O	
Carr, Jesse Lawrence	Porterville	Carter, Marian Sarah	Berkeley
1 Agr-2200 Piedmont av	Bkly 6601	*1 Agr-2401 Blake st	
Carr, John Edwin	Porterville	Carter, Maurice Sterling	San Pedro
(1) 3 Agr-2200 Piedmont av	Bkly 6601	2s LS PreA-2422 Channing way	Bkly 1666
Carr, Margaret Lois	Berkeley	Carter, Naretta Asenath	Oakland
4 LS-2701 Claremont blvd	Bkly 6030	*1 LS-1112 Myrtle st. O	Oakd 4905
Carr, Richard Bruce	Berkeley	Carter, Roberta Frances	Petaluma
3 LS-2601 Channing way	Bkly 5904	*1 LS-3670 Sacramento st. S F	
Carr, Solomon Herman	Mexia, Tex.	Carton, Henry	Sausalito
*1(1) 2 LS-2616 Virginia st		1 LS-2330 Telegraph av	Bkly 9227
Carr, Thomas Henry	Rohnerville	Cartwright, John Macdonald	Berkeley
1 Com-2239 Haste st		1 LS PreL-2165 Center st	Bkly 7359W
Carr, William Haseltine	Gilroy	Cartwright, Miriam	Santa Fe, N. M.
2 CE-2120 Kittredge st	Bkly 2090	*1 Com-1443 Russell st	
Carrick, Edna	Roseburg, Ore.	Carver, Gerald Miller	Bakersfield
*1 LS-2628 Benvenue av	Bkly 4895J	*1 CE-1617 Spruce st	Bkly 2402J
Carrick, Irene	Oakland	Carver, Mary Marguerite	Berkeley
1 LS-612 Mariposa av. O	Pied 2565	8 LS-1617 Spruce st	Bkly 2402J
Carrier, Helen	Santa Rita, N. M.	Case, Edith M.	Berkeley
1 LS-2723 Durant av	Bkly 9531	*1 LS-984 Tulare av	Bkly 8948W
Carroll, Douglas	San Francisco	Case, Frank Harrison	Elko, Nev.
1s Chem-2223 Union st		2 Mec-2224 Dana st	
Carroll, Julia Ellen	Colton	Casebolt, Henry Irwin	Sacramento
(1) 3 LS-2530 Durant av	Bkly 1675	2 LS-2039 Shattuck av	Bkly 5128J
Carroll, Lois Aurelia	Calistoga	Casey, Ellen Margaret	Los Angeles
3 LS-2650 Parker st	Bkly 5094J	1 LS-1518 Shattuck av	Bkly 9288J
Carrothers, Donald Stone	Sebastopol	Casey, Raymond John	San Francisco
1 Mec-2208 Roosevelt av	Bkly 2813W	*2 LS-2601 Durant av	Bkly 23
Carrothers, Roland Sykes	Sebastopol	Casey, Rita Frances	Berkeley
2 Mec-2208 Roosevelt av	Bkly 2813W	*1 LS-1374 Twentieth av. S F	Snst 3682
*Carson, Alvin Howard	Modesto	Casey, William Kevin	Berkeley
4 LS PreL-2550 Haste st	Bkly 5118W	(1) 3 LS PreL-1374 Twentieth av. S F	Snst 3682
Carson, Edith Leona	Modesto	Cass, Emily Flora	South Pasadena
1 LS-2624 Virginia st	Bkly 3663	*2 LS-2725 Channing way	Bkly 7950
Carson, George Earl	Gardena		
4 LS-2251 College av	Bkly 9107		

- Cass, Harold Pliny South Pasadena
4 Agr-University Farm, Davis
- Cassarotto, Harry Eugene Groveland
4 LS-2214 Dana st Bkly 1160
- Cassell, Irving I. San Francisco
1 LS PreM-1788 Post st, S F West 8380
- Cassidy, Alice Hands Stockton
3 LS-2221 Bancroft way Bkly 4647W
- Cassidy, Linus Morgan Richmond
1 LS PreM-840 Tenth st, R Rchd 1080
- Castello, Frank Ferdinand Hollywood
1 LS-1809 Euclid av Bkly 1615
- Castle, Beverly Burgess Stockton
3 LS-2401 Durant av Bkly 6504
- Caten, Edna Frances Oakland
2 LS-1052 Sixteenth st, O Lksd 3448
- Cates, William Kendall Idaho Falls, Ida.
4 Mec-2528 Ridge rd Bkly 3500
- Catlin, Dorothy Merk Los Angeles
1 LS-2624 Virginia st Bkly 3663
- Caudle, Erdy Beatrice Exeter
4 LS-2530 Ridge rd Bkly 7084
- Caudron, Donald Carlton Santa Barbara
2 Agr-R. F. D. 1, Box 21
- Caughell, Robert Curtis Crescent City
2 CE-2612 Haste st
- Caulkins, Clarence Adelbert
Big Timber, Mont.
(1) 2 LS PreA-2120 Kittredge st Bkly 2090
- Cauthen, William Carmichael Los Angeles
1 Mec-2610 College av
- Cava, Joseph Peter San Francisco
3 CE-2724 Pine st, S F West 2885
- Cavagnaro, James Finley Oakland
2 Com-400 Lagunetas av, O Oakd 5879
- Cereghino, Elizabeth Berkeley
3 LS-2422 Russell st Bkly 5878W
- Cerini, Narcissa Mary Oakland
4 LS-2725 Channing way Bkly 7950
- Cerini, Will Ferd Oakland
2 Chem-690 Twenty-fifth st, O Oakd 7049
- Chadwick, Wallace L. Redlands
1(1) 2 Mec-2134 Oxford st
- Chaffey, Elswood Los Angeles
1 LS-2421 Virginia st Bkly 3663
- Chaffey, Judith Emilie Los Angeles
2 LS-1116 Ventura st Bkly 6444
- Chalmers, Fay San Diego
3 LS-2639 Channing way Bkly 845
- Chalmers, Joseph Honolulu, T. H.
2 Min-2218 Dana st
- Chalmers, Thomas Berkeley
2 Agr-2023 Haste st Bkly 1167J
- Chalstran, Harold Eugene Corning
2 LS PreL-1640 Euclid av
- Chamberlain, Margaret Jane Ocean Park
1 LS-1809 Euclid av Bkly 1615
- Chamberlain, Mary Ann Ocean Park
(1) 3 LS-1809 Euclid av Bkly 1615
- Chamberlain, Myrtle Sarah Berkeley
2 LS-Channing apts Bkly 8425
- Chamberlain, Orlo Rexford Vancouver, Wn.
4 LS-2212 Bancroft way Bkly 6391W
- Chambers, Eleanor Kathleen Los Angeles
2a LS-2311 Bancroft way Bkly 214
- Chambers, Elwyn Whitman Oakland
4 LS-308 Thirteenth st, O Lksd 1482
- Chambers, Shirley San Jacinto
1 LS-1719 Allston way Bkly 1220J
- Chamness, Oliver Vaughan Whittier
4 LS-2508 Haste st Bkly 767
- Champion, Frank Baker Los Angeles
3 Min-2412 Piedmont av Bkly 5098
- Chan, Ping Hong Oakland
4 LS-321 Eighth st, O Oakd 9844
- Chance, Isabel Hull El Paso, Tex.
(1) 3 LS-2847 Prince st Bkly 3856J
- Chance, Mary Elizabeth Healdton, Okla.
1 LS-2254 Fulton st Bkly 2091
- Chance, Vanna Belew Ada, Okla.
1(1) 3 LS-2254 Fulton st Bkly 2091
- Chand, Kishan The Punjab, India
2 Com-2207 Ellsworth st
- Chandler, Lloyd Macroy Vacaville
1 Com-2412 Piedmont av Bkly 5098
- Chandler, Stewart Brooks Berkeley
1 Agr-Hotel Whitecotton Bkly 7800
- Chandra, Mahesh Stockton
2 LS-2048 Center st Bkly 2796
- Chang, Chi Changsha, China
2 Min-2600 Etna st Bkly 7593
- Chang, Kiong Dai Honolulu, T. H.
2 LS PreM-Stiles Hall Bkly 481
- Chang, Oliver Carrington Berkeley
1 Agr-2413 Fulton st
- Chang, Ora Ivy Berkeley
2 LS-2413 Fulton st
- *Chang, Shau Min Hong Kong, China
4 LS-2504 Regent st Bkly 8893J
- Chanslor, Ray Edwin Berkeley
2 LS-1628 Walnut st Bkly 5409J
- Chanslor, Ruby Mae Riverside
2 LS-2330 College av Bkly 1803
- Chao, Shen Chu Honan, China
2 CE-2407 Fulton st Bkly 8885W
- Chapin, Dulce May Ferndale
2 LS-2429 Channing way Bkly 4648
- Chapman, Allan Nevada City
1 Mec-1540 Spruce st
- Chapman, Dwight Wellington Berkeley
3 Com-2509 Regent st Bkly 3606J
- Chapman, Lauren Bock Burlington, Iowa
2 Mec-1408 Henry st
- Chapman, Leslie Harold Nevada City
(1) 2 Min-1507 Oxford st

- Chapman, Philip Stanard San Francisco
1 Mec-4327 Twentieth st, S F Man 581
- Chapman, Robert John Los Angeles
3 LS PreM-2425 LeConte av Bkly 4834
- Chapman, Sargent Nevada City
1 Mec-1540 Spruce st Bkly 921W
- Chappell, Vernon Everett Vallejo
1 Com-2509 Regent st Bkly 8606J
- Chapuia, Emilie Avey San Francisco
1 LS-2697 Union st, S F West 3788
- Chard, Marie Antoinette San Francisco
2 LS-2240 Telegraph av
- Charlson, Arthur Abel San Francisco
3 Mec-2500 College av Bkly 5943
- Charlton, Trafford Piedmont
1 LS-322 Blair av, P Pied 2674J
- Charmak, David Dewey San Francisco
1 LS PreM-1624 Sacramento st, S F Frkln 7561
- Charnock, Donald Austin San Francisco
3 LS PreM-2415 Haste st Bkly 244W
- Chase, Alice Louise Dedham, Mass.
2 LS-2626 Haste st Bkly 1507W
- Chase, Dee Wilson Santa Ana
2 Agr-1948 Bancroft way
- Chase, Ernest Samuel Vacaville
1 Mec-2214 Union st Bkly 2488
- Chase, Helen Frances Los Angeles
(1) 3 LS-2624 Virginia st Bkly 8668
- Chase, Irene Willma Oakland
1 LS-2608 Milvia st Bkly 1195J
- Chase, Lucius Foster Los Angeles
1 LS PreL-2547 Channing way Bkly 4688
- Chase, Mary White Vacaville
3 LS-1700 Euclid av Bkly 6789
- Chatfield, Ruth Brown Biggs
4 LS-2500 Durant av Bkly 8064W
- Chatfield, Vera Mae Biggs
4 LS-2500 Durant av Bkly 8064W
- Chavez, David Julian Palo Alto
1(1) 4 LS-2415 Bowditch st Bkly 8650J
- Cheatnam, Wilma Gladys Los Banos
4 LS-2620 Dana st Bkly 8693W
- Chedic, Cless Lee Oakland
2 LS-4825 View st, O Pied 2851J
- Cheese, Harlan Fillmore
(1) 3 Com-1813 Francisco st
- Cheese, Marjorie Alice Fillmore
4 LS-1813 Francisco st
- Cheever, Marguerita Vivian Los Angeles
1 Com-2620 Benvenue av Bkly 7380W
- Chenault, Edna Fairman Berkeley
1 LS-1817 Delaware st
- Cheney, Harold Smith Berkeley
8 LS-397 Sixty-first st, O Pied 6041J
- Cheney, Joyce Ruth Creighton, Neb.
1 Com-2627 Hearst av Bkly 4009
- Cheney, Margaret Marksbury San Francisco
1 LS-33 Spruce st, S F Pac 2578
- Cheney, St. Clair Garnett San Francisco
4 LS PreM-1640 Euclid av Bkly 7057
- Cheng, Lee Pih Tze-ki, Ning Po, China
1 Agr-2600 Etna st
- Chenoweth, Paul Newton San Francisco
1 Mec-1510 Henry st
- Cherin, Benedict K. San Francisco
1 LS-864 Treat av, S F
- Cherry, Mildred Aleen San Francisco
1 LS-2700 College av Bkly 1442J
- Cheesebrough, Harold Nathan Oakland
1 LS PreL-531 Thirteenth st, O Oakd 6304
- Cheshire, Ursula Claire San Francisco
1 LS-715 Baker st, S F Flmr 4773
- Chealey, Carlton Carawell Colusa
4 LS-2412 Piedmont av Bkly 5098
- Chesnut, John Dewey Oakland
2 Com-2308 Webster st, O Oakd 6859
- Chew, Edward Chapin Oakland
3 CE-3765 Shafter av, O Pied 649W
- Chew, Yook Oakland
2 CE-2600 Etna st
- Chien, Moo Ling Changsha, China
2 Min-2224 Dana st Bkly 4216J
- Childs, Marjorie Sproule Berkeley
1 LS-1905 Henry st
- Childs, Ralph Spear Oakland
3 Mec-2638 Russell st Bkly 3419J
- Childs, Sarah Bertha Crescent City
1 LS-2835 Warring st Bkly 6744
- Chiles, Henry Gardner Piedmont
1 Agr-120 Bonita av, P Pied 4570
- Chiljian, Vahram A. Los Angeles
1 LS-1508 Oxford st Bkly 8201W
- Ching, John Frederic Berkeley
1 Com-1543 Josephine st Bkly 6698J
- Chinn, Alexander Balfour San Francisco
1 LS PreM-21 Brenham pl, S F Chins 385
- Chisholm, Gladys Los Angeles
8 LS-2378 Woolsey st Bkly 2934W
- Chiam, Eric Elaine Berkeley
2s LS-2119 Addison st Bkly 3458J
- Chiam, Gera Tulare
2 LS-2119 Addison st Bkly 3458J
- Chivers, Marcella Elizabeth Hollywood
3 LS and 1 Juris-2318 Hilgard av Bkly 3372W
- Chong, Hon Mon Honolulu, T. H.
1 LS-Stiles Hall Bkly 481
- Chorbajian, Albert Kalem Fresno
3 LS PreM-2685 Channing way Bkly 1895
- Chou, Tien Chi Fresno
1 Com-2504 Regent st Bkly 8893J

Undergraduate Students

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- Choudhury, Nalini Ranjan Berkeley
4 Chem-1819 Dwight way Bkly 6989J
- Choy, Doo Whan Honolulu, T. H.
11 Chem-University Farm, Davis
- Christ, Alice Evelyn Yuba City
1 LS-2682 Haste st Bkly 1038W
- Christensen, Aileen Dean
Salt Lake City, Utah
4 LS-2330 College av Bkly 1803
- Christensen, Edith Blanche San Francisco
2 LS PreL-2520 Virginia st Bkly 7247
- Christensen, Sarah Mattine Novato
13 LS-2682 Durant av Bkly 5137
- Christenson, Fred Gerhardt Salinas
4 Agr-University Farm, Davis
- Christenson, John Baxter Hayward
1 CE-2616 Virginia st Bkly 6716
- Christian, Grace Lena Oakland
1 LS-2627 Hearst av Bkly 4009
- Christie, Fay Irvin Lassen
8 Com-2647 Durant av Bkly 103
- Christie, Lawrence Glenn Oakland
4 Min-1069 Harvard rd, O Oakd 8752
- *Christie, Randolph Arthur Petaluma
4 LS-2618½ College av Bkly 5511J
- Chryst, Margaret Waters Berkeley
2 LS-2618 Hilgard av Bkly 1199
- Chucovich, Savetta Leslie Alameda
2 LS-2086 San Antonio av, A Ala 4023
- Church, Clarence Andrew Salinas
2 LS-2507 Channing way
- Church, Dell Vivian San Jose
1(1) 2 LS-5320 Thomas st, O Pied 1602J
- Church, Doris Maude Nevada City
13 LS-2632 Regent st Bkly 6403W
- Church, Janice Elizabeth Nevada City
8 LS-2632 Regent st Bkly 6403W
- Church, Marcus Frank Broomfield, Colo.
(1) 3 Agr-1809 Euclid av Bkly 1615
- Church, Ralph Withington Los Angeles
1 LS-2610 Durant av Bkly 7804
- Church, Thomas Bruce Salinas
2 LS-2507 Channing way
- Church, Thomas Dolliver Berkeley
2 LS PreL-609 Arlington av Bkly 1311
- Churchill, Jerome Yreka
21 Mec-St. Maryleau Hotel, S F
- Cianciarulo, Joseph Anthony Piedmont
2 Com-314 Sheridan av, P Pied 8974W
- Ciprico, Edmond Samuel San Rafael
1 LS-2251 College av Bkly 9107
- Clair, Helen Louise Portland, Ore.
4 LS-1700 Euclid av Bkly 6789
- Clampett, Paul Hamilton San Francisco
1 LS-1815 Highland pl Bkly 1682
- Clapham, Francis Joseph Carnesville, Mo.
1 Min-2629 LeConte av Bkly 5174J
- Clark, Alfred Henderson Soledad
2 LS-2001 Allston way Bkly 6710
- Clark, Annabel Oakland
1 Com-659 Boulevard way, O Oakd 3299
- Clark, Catherine Louise Los Angeles
1(1) 2 LS-475 Forty-first st, O Pied 6568W
- *Clark, Charles Lester Santa Rosa
4 LS-2338 College av Bkly 1722
- Clark, Clarice Lillian Soledad
1 LS-1719 Euclid av Bkly 7844J
- Clark, Donald Lowell Denver, Colo.
1(1) 2 Com-2327 Bancroft way Bkly 1061W
- Clark, Dorothy May Oakland
1 LS-326 Fifty-first st, O Pied 7078J
- Clark, Florence Lillian Hood River, Ore.
1 LS-2618 Hillgass av Bkly 8544
- Clark, Frances Gray Ohula Vista
1 LS-2723 Durant av Bkly 9531
- Clark, George Fletcher Chicago, Ill.
2 LS-1715 LeRoy av Bkly 2851
- Clark, George Milton San Francisco
13 LS-2554 California st, S F West 890
- Clark, Helen Elizabeth Berkeley
13 LS-2710 Channing way Bkly 9520
- Clark, Herbert Hamilton Jr. Los Angeles
2 Mec-2607 Hearst av Bkly 5913
- Clark, Homer Bruce Chowchilla
2 Com-2114 Durant av Bkly 7426J
- Clark, Howard Hamilton Berkeley
1 Com-974 Keeler av Bkly 1331J
- Clark, James Harvey Los Angeles
23 Com-2601 Durant av Bkly 23
- Clark, Karl Barber El Cajon
24 LS-2035 Channing way Bkly 2515
- Clark, Lenora Charlotte Arroyo Grande
4 LS-2221 Carlton st Bkly 4784W
- Clark, Lewis Frothingham Alameda
2 Mec-1849 Bay st, A Ala 2826J
- Clark, Lois Miriam Berkeley
1 LS-2435 Oregon st Bkly 5661J
- *Clark, Morris R. Berkeley
4 LS PreL-2833 Bancroft way Bkly 8113
- Clark, Paul Revere Chowchilla
2 Com-2114 Durant av Bkly 7426J
- Clark, Reece Robert Calistoga
3 LS PreL-2500 Durant av Bkly 5517J
- Clark, Richard Albert Fresno
21 Com-2228 Dana st Bkly 1053
- Clark, Richard Glendenning Oakland
2 LS-659 Boulevard way, O Oakd 3299

- Clark, Ruth Hortense San Francisco
2 LS-3169 Sacramento st, S F West 1176
- Clark, Samuel Gilbert Monrovia
13 Min-2647 Dwight way Bkly 5831
- Clark, Tremere Knox San Francisco
1s LS PreM-1265 Sixth av, S F Snt 3514
- Clark, Waldo Lee West Alhambra
3s Min-2001 Allston way Bkly 6710
- Clark, Webster Verner Berkeley
2 LS PreL-1014 Shattuck av Bkly 7704W
- Clark, William Harold El Cajon
4 LS-2035 Channing way Bkly 2515
- Clarke, Edward Salisbury Hemet
1s LS PreL-2607 Hearst av Bkly 5913
- Clarke, Hazel Gertrude Oakland
1 Com-1563 Franklin st, O Oakd 3598
- Clarke, Helene Beverly Hills
3 LS-2418 College av Bkly 4440
- Clarke, Josephine Gertrude San Francisco
1s LS-1480 Guerrero st, S F Man 1645
- Clarke, Robert Doane Hemet
1 LS PreL-2607 Hearst av Bkly 5913
- *Clarkson, Fuller Berkeley
4 LS-2430 Channing way Bkly 8280J
- Clary, Harold Franklin Pomona
2 LS PreL-2426 Virginia st Bkly 564
- Claude, Dorothy Louise Anadarko, Okla.
3 LS-2233 Derby st
- Clausen, Anna San Francisco
(1) 2 LS-2629 Haste st Bkly 3287
- Clausen, Gert Thompson San Francisco
1s Com-2008 Shattuck av Bkly 5135
- Clauson, Sigrid Ingeborge Kingsburg
1 LS PreM-Box 250 Bkly 3359W
- Clawson, Frances Allen Modesto
1 Com-2620 LeConte av
- Clay, Arthur Romo Stockton
4 LS-1640 Euclid av Bkly 7057
- Clay, Jessie Vivian Shelton, Wn.
(1) 3 LS-2400 Haste st Bkly 4596
- Claybaugh, Esther Elizabeth Los Angeles
(1) 4 LS-542 Twenty-fifth st, O Oakd 217
- Clayberger, Lester Morris Oakland
1 CE-4240 Quigley st, O
- Clayton, Mary Beatrice Fairfield
1 LS-2548 Haste st Bkly 4999J
- Cleary, Irma Augusta Lindsay
(1) 2 LS-2417 Edwards st
- Cleary, James Maxwell Oakland
3 Com-2425 LeConte av Bkly 4334
- Cleary, Raymond Francis Oakland
1 Chem-5661 Genoa st, O
- Cleaveland, Alice May Concord
4 LS-2520 Cedar st Bkly 1444
- Cleaver, Curtis Herbert Berkeley
13 Chem-1730 La Loma av Bkly 8716
- Cleese, Esther Evelyn Oakland
11 LS-889 Athens av, O
- Clegg, Courtney Gee Berkeley
1 LS PreM-2640 Benvenue av Bkly 2682J
- Clegg, Lucie Gee Berkeley
11 LS-2640 Benvenue av Bkly 2682J
- Clemans, William Joseph Mesa, Ariz.
1 Com-Euclid apts Bkly 5155W
- Clement, Catherine St. Helena
4 LS-2617 1/2 Ellsworth st Bkly 9591J
- Clements, Forrest Edward El Centro
1 LS PreM-2420 Canning way Bkly 7404W
- Clements, Traverse Walter Los Angeles
11 LS PreL-2415 Bowditch st Bkly 8650J
- Cliff, Nelson Alfred San Diego
(1) 2 Com-2211 Union st Bkly 3233W
- Clinch, Marian Margaret Grass Valley
1 LS-2714 Ridge rd Bkly 9093
- Cline, James Jacob Pomona
2 LS-2426 Virginia st Bkly 564
- Cline, Jeannie Bess Cleburne, Texas
1 LS-2325 Channing way Bkly 605
- Cline, John Thaddeus San Bernardino
3 LS PreL-2401 Durant av Bkly 6504
- Cline, John Wesley, Jr. Santa Rosa
3 LS PreM-2717 Hearst av Bkly 5770
- Clinkenbeard, Dan Irving Oakland
1 LS PreM-2709 Grove st, O Lhad 1264
- Cloak, Harry Sylvester Alameda
1 Mec-8257 Bayo Vista av, A Ala 3389
- Close, Benjamin San Diego
(1) 2s Com-2416 Allston way Bkly 1141
- Close, Francis Marion San Francisco
3 LS PreM-312 Scott st, S F Park 5859
- Close, Mildred Agnes Kalispel, Mont.
12 LS-2018 Delaware st Bkly 1909
- Cloud, Dorothy Los Angeles
4 LS-2520 Cedar st Bkly 1444
- Clowes, Roscoe Wheeler Stockton
1 Agr-2251 College av Bkly 9107
- Clute, Foster Lyons San Francisco
1(1) 2 Com-1362 Fulton st West 6647
- Coates, Clarence Sheldon Sacramento
2 Com-2341 Carlton st Bkly 9006W
- Coates, Mildred Adella Cleveland, Ohio
11 LS-2627 Hearst av Bkly 4009
- Coates, Winston Loyd Cedarville
11 LS PreM-2203 Atherton st
- Conta, Vivian Danville
2 LS-1540 Arch st
- Cobb, Charles Berkeley
3 LS PreL-3108 Lewiston av Pied 4884J
- Cobb, Helene Louise Boulder, Colo.
1 LS-2905 Pine st

- Cobb, Herndon Haralson Berkeley
3 LS-3108 Lewiston av Pied 4384J
- Coblentz, Gladys Lurelda Lodi
4 LS-2749 Dwight way Bkly 6444
- Coburn, Elvira Elise San Francisco
1 LS-2710 Channing way Bkly 9520
- Cochran, Earl Pierce Dinuba
2s LS-2712 Dana st Bkly 2249J
- Cochran, Grace Elizabeth Dinuba
2 LS-2524 LeConte av Bkly 2531
- Cochrane, Edward Winslow Oakland
2 LS PreL-2647 Durant av Bkly 102
- Cochrane, Eric William Fresno
1 Agr-2330 Telegraph av Bkly 9227
- Cochrane, Gwendolyn Stanley San Rafael
3 LS-2519 Ridge rd Bkly 7614
- Cochrane, James Atwater San Rafael
1 LS PreM-2530 Hilgard av 1
- Cockroft, Charlotte Garthwaite Oakland
3 LS-385 Fairmont av, O Oakd 4581
- Codlin, Carrie Irene Raton, N. M.
1 LS-2320 Bancroft way
- Coe, Arthur P. New York, N. Y.
1(1) 4 LS-2503 Cedar st Bkly 6196
- Coen, Winnifred Eggleston Los Angeles
4 LS-1131 Arch st Bkly 2255J
- Coffey, Anita Bernice Berkeley
1 LS-2727 Benvenue av Bkly 8649W
- Coffey, Harry Eugene San Francisco
1 LS PreM-1244 Masonic av, S F
Park 1940
- Coffey, Ralph Oakland
3 LS PreL-2634 Bancroft way
Bkly 1276
- Coffey, Stanley Edward San Francisco
1 LS PreM-729 Waller st, S F
Park 1255
- Coffin, Hattie Myrtle Denair
1 LS-1734 Walnut st
- Coghlan, Charles Clement Portland, Ore.
(1) 2 LS PreM-2402 Dana st
Bkly 3735W
- Coghlan, Kathleen Daisy Pueblo, Colo.
4 Com-2500 Bancroft way Bkly 1848
- *Cohan, Aron Hillelovitch Harbin, Manchuria
4 LS-2227 Dana st Bkly 1652W
- Cohen, Daniel San Francisco
3 LS PreM-1656 Golden Gate av, S F
Flmr 3803
- Cohen, Earl Leon San Francisco
2 CE-1034A Divisadero st, S F
Flmr 2122
- Cohen, Mamie B. Los Angeles
4 LS-2400 Bancroft way Bkly 6488J
- Cohn, Esther Oakland
1 LS-624 Brooklyn av, O Mer 791
- Cohn, Frederick Nathaniel Pasadena
2 LS-2618 Durant av Bkly 2765
- Cohn, Margaret Dorothea Pasadena
3 LS-1624 Scenic av Bkly 4217
- Coke, Wilbur Smith Ontario
(1) 4 LS-2017 Lincoln st Bkly 4706J
- Colby, Elden LeConte Oakland
1 LS PreL-355 Sixty-first st, O
Pied 8045W
- Colby, Geraldine Russell Seattle, Wn.
1 LS PreA-4253 Telegraph av, O
Pied 4646
- Colby, Phoebe Lenore Oakland
3 LS-355 Sixty-first st, O Pied 8045W
- Cole, Agnese Marie Berkeley
1 Com-2804 Stuart st Bkly 3079J
- Cole, Donald Shreve San Francisco
1s Mec-2318 Telegraph av Bkly 5964
- Cole, Friend William Los Angeles
1 LS-2330 Telegraph av Bkly 9227
- Cole, Jack El Paso, Tex.
1 Mec-2415 Bowditch st Bkly 8650
- Coleman, Grace Owen Oakland
3 LS-5411 Arbor av, O
- Coleman, Helen Grace Pasadena
(1) 2 LS-2639 College av Bkly 5140J
- Coleman, John Edward Clovis
2 LS-2614 Dwight way Bkly 5988
- Coleman, Martha June Berkeley
3 LS-924 Spruce st Bkly 7732W
- Coleman, Ruth Gertrude Raton, N. M.
1 LS-2628 Channing way Bkly 6928J
- *oles, Esther May Newman
4 LS-1615 Scenic av Bkly 4249W
- Coles, George Palmer Oakland
1 Min-5108 Manila av, O
- Coles, Herbert Morey San Francisco
4 Agr-University Farm, Davis
- Coles, William Marvin San Francisco
3 Agr-1711 Euclid av Bkly 3378
- Colin, Frank Benoit Oakland
2 Com-934 Kingston av, O
- Colledge, Ethel Elder Galt
1 LS-2531 Channing way Bkly 7068W
- Collenburg, John Walter Oakland
1 Com-2032 E. Thirtieth st, O Mer 4380
- Collette, Theresa Blanche San Francisco
1s LS-1155 Pine st, S F Frkn 1191
- Colley, George Stanley Oakland
1 Mec-657 Rand av, O Lksd 1594
- Colley, Helen Oakland
2 Agr-765 Rand av, O Lksd 1594
- Colley, William Wallace Oakland
2 Mec-765 Rand av, O Lksd 1594
- Collins, Asa Weston San Francisco
2 LS PreM-2620 Bancroft way
Bkly 8870
- Collins, Charles Raymond Vallejo
2 LS PreL-2617 Durant av Bkly 822
- Collins, Donald Bennallack Berkeley
4 Min-2217 Oregon st Bkly 3298W

- Collins, Edward Donnan Kirkland, Wn.
 1) 4 Agr-2117 Center st
- Collins, Francis E. Vallejo
 4 LS PreM-2333 College av Bkly 1722
- Collins, Isabelle Davison Campbell
 1 LS-2531 Ridge rd Bkly 7066
- Collins, Muriel Caro San Francisco
 2 LS-2299 Sacramento st, S F
 Flmr 1579
- Collins, Neil Rhodes Goldfield, Nev.
 3 LS-2435 Haste st Bkly 1980
- Collins, Russell Oroville San Bernardino
 1 Min-2248 Telegraph av Bkly 9011
- Colt, Jane Ruth San Francisco
 3 LS-830 Post st, S F
- Colt, Sallie Amyn Nevada City
 2 LS-2624 Virginia st Bkly 3663
- Colton, Earl Glenn Lincoln, Neb.
 1) 2 Min-2315 Dwight way Bkly 4026
- Combs, Leah Bernice Los Angeles
 3 LS-2333 Channing way Bkly 8206
- Combs, Pauline Estelle Berkeley
 3 LS-2529 Ellsworth st Bkly 6886
- Comfort, Harold Wesley Fresno
 (1) 2 LS PreM-1433 Grove st
 Bkly 5369
- Compton, Alicia Mary Oakland
 3 LS-523 Fairmont av, O Pied 281J
- Compton, Glen Orin Bishop
 1 CE-1329 Bonita av
- Comstock, Ellen Virginia Williams
 3 LS-2624 Virginia st Bkly 3663
- Comstock, Floyd Bryte Oakland
 1 CE-667 Eileen st, O Pied 5112J
- Comstock, Katherine Oakland
 1s LS-1109 Oak st, O Lksd 4823
- Comte, Helene LaFaille San Francisco
 1 LS-3851 Clay st, S F Pac 2400
- Conant, Roger Nugent Berkeley
 3 CE-2600 Bancroft way Bkly 1901
- Concepcion, Jose Manila, P. I.
 1 Com-1924 University av
- Condon, Edward Oakland
 1 LS-781 Alcatraz av, O Pied 896
- Condy, Griffith Howard Stockton
 1s Com-2318 Telegraph av Bkly 5964
- Coney, Alexander Joseph San Francisco
 1 Com-1538 Milvia st
- Coney, Kaufman Lloyd Oakland
 1 LS-145 Tenth st, O Oakd 6086
- Coney, Mason Cleveland Cleburne, Texas
 1 Agr-2311 Bowditch st Bkly 7037W
- Confesor, Patricio V. Iloilo, P. I.
 1 LS PreL-1924 University av
 Bkly 2114
- Congdon, Fay Elaine San Francisco
 1 LS-2211 Oregon st Bkly 4353J
- Congreve, Ralph Hayes Buffalo, N. Y.
 1 Agr-2642 Bancroft way Bkly 653
- Conklin, Richard Harry Joplin, Missouri
 1 Agr-486 Thirty-fourth st, O
- Conley, Beatrice Blanche Denver, Colo.
 1 LS-1418 Holly av Bkly 4759
- Conley, Mary Garnett Ontario
 1) 3 LS-2417 LeConte av Bkly 5650
- Conn, Catherine Ellen Sioux City, Iowa
 1 LS-2417 LeConte av Bkly 5650
- Connell, Corrine Martha San Diego
 1 LS-2318 Telegraph av Bkly 5964
- Connell, Louise Murgage San Francisco
 2 LS-873 Sutter st, S F Frkn 142
- Connell, Thomas Joseph Boston, Mass.
 1 Com-2222 Bancroft way
- Connell, Wilda Alma Berkeley
 3 LS-2604 Dana st Bkly 5149W
- *Connolly, Marie Louise Pueblo, Colo.
 4 LS PreM-1955 San Pablo av, O
 Oakd 2404
- Conner, Albert Kenneth Berkeley
 2 LS-2525 Durant av Bkly 5900
- Conner, Sherrill Martin Berkeley
 2 LS-2610 Durant av Bkly 7804
- Conner, Willis Benton Indianapolis, Ind.
 1) 3 LS-Hotel Whitecotton Bkly 7300
- Connett, Mahlon Coleman Oakland
 1 Mec-558 Vernon st, O Pied 5677
- Connitt, George Herbert Oakland
 2 Chem-2551 Harrington av, O
 Frvl 2166
- Connolly, John Francis San Francisco
 1 LS-1748 Larkin st, S F Frkn 1088
- Connolly, Robert Emmet Ukiah
 4 LS PreM-2647 Durant av Bkly 102
- Connor, Garland Daniel Spokane, Wn.
 1 Mec-2415 Bowditch st Bkly 8650J
- Connor, George Henry Pope Valley
 2 LS PreL-2333 College av Bkly 1722
- Connor, Roma Enola Great Falls, Mont.
 4 LS-2721 Channing way Bkly 808
- Conrad, David Andrew, Jr. San Francisco
 1 LS PreM-2318 Telegraph av Bkly 5964
- Conrad, Earl Thompson Santa Barbara
 2 LS-2150 Center st
- Conrad, Florence Louise Anaconda, Mont.
 1 LS-2542 Durant av Bkly 1364
- Conrad, Robert Verne Santa Barbara
 1 LS-2150 Center st
- Conrad, Ruth Los Angeles
 3 LS PreM-1308 Tamalpais rd
 Bkly 4460J

- Conrad, Winifred Mable Oakland
1 LS PreL-2727 Twenty-first av Mer 751
- Conroy, Helen Estelle Butte, Mont.
1 LS-2710 Channing way Bkly 9520
- Conwell, Margaret Rebecca Topeka, Kans.
1 LS-2542 Durant av Bkly 1864
- Cook, Alma Mildred Winters
2 Com-803 Peralta apts, O Oakd 9145
- Cook, Edith May Berkeley
12 LS-1221 Oxford st Bkly 9881W
- Cook, Harold William Los Angeles
1a Com-2622 College av Bkly 6749W
- Cook, Helen Elizabeth Butler, Mo.
(1) 4 LS-2727 Durant av Bkly 2211
- Cook, Ina Agnes Berkeley
1 LS-2417 Ward st Bkly 2512J
- Cook, John Lindsay Spokane, Wn.
1 Com-2415 Bowditch st Bkly 8650J
- Cook, Kathryn Berkeley
4 LS-2747 Hillegass av Bkly 2954
- Cook, Madeline Thomas Oakland
2 LS-1831 Tenth av, O Mer 2511
- Cook, Marion Long Beach
12 LS-2418 College av Bkly 4440
- Cook, Marion Jean Tulare
1 LS-2542 Durant av Bkly 1864
- *Cook, Marjorie Helen Ventura
4 LS-2335 Warring st Bkly 6744
- Cook, Virginia Julia Oakland
4 LS-303 Peralta apts, O Oakd 9145
- Cook, William Henry Eureka
3 Com-540 Vincente av Bkly 3910W
- Cooke, Edwin David Hollywood
4 LS-2425 LeConte av Bkly 4334
- Cooke, Georgia Frances Carlsbad, N. M.
2 LS-2400 Piedmont av Bkly 5224
- Cooke, L. Constance San Francisco
3 LS-2131 Carlton st Bkly 5737W
- Cooke, Marden Garfield Healdsburg
1 Com-2131 Carlton st Bkly 5737W
- Cooley, Alice Robinson Yuba City
18 LS-2128 Durant av Bkly 3461
- Cooley, Charles Jones Montague
1 LS-2228 Dana st Bkly 1053
- Coombs, Mortimer Wood San Francisco
1 Chem-2214 Union st Bkly 2483
- Coons, Robert Berrien Hollywood
1 LS-2814 Dwight way Bkly 4026
- Coop, Harold Walter Long Beach
(1) 2 LS-2119 Addison st
- Cooper, Alfred Los Angeles
2 Chem-2607 Hearst av Bkly 5913
- Cooper, Bernice Claire Brawley
1 LS-2526 Hilgard av Bkly 1441
- Cooper, Catherine Rebecca Campbell
3 LS-2901 Channing way Bkly 1773
- Cooper, Charles Williams San Francisco
2 LS PreL-1815 Highland pl Bkly 1682
- Cooper, Dorothy Marsh Hollywood
1 LS-2421 LeConte av Bkly 3062
- Cooper, George Roland Los Angeles
2 Com-2333 College av Bkly 1722
- Cooper, John H. Hollywood
1 Com-2529 Hearst av Bkly 40
- Cooper, John Morrison Berkeley
3 Agr-University Farm, Davis
- Cooper, Mary Ruth Berkeley
1 LS-1480 Grove st
- Cooper, Muriel Roney Vallejo
2 Com-2429 Channing way Bkly 4648
- Cooper, Ruth Estelle Berkeley
4 LS-2247 Stuart st Bkly 2496J
- Cope, Dorothy Alice Oakland
1 Com-616 Twenty-eighth st, O Lksd 4894
- Coplin, Ethel Ava Berkeley
4a LS-2421 Durant av Bkly 1503W
- Coplin, Keith Wagor Piedmont
1 Com-202 Monticello av, P Pied 2772
- Corbett, Fremont Thomas Los Angeles
3 Mec-839 Oxford st Bkly 3159W
- Corbett, George Austin Eureka
18 LS PreL-2528 Ridge rd Bkly 300
- Corbin, Adelaide Jesse San Francisco
14 LS-2739 Parker st Bkly 3743J
- Cordé, Edith Bertha Alameda
3 LS-2519 Parker st Bkly 1814W
- Cordé, Leah Reading Berkeley
3 LS-2519 Parker st Bkly 1814W
- Corder, Florence Victoria Fruitvale
3 LS-1827 Addison st
- Corea, Charles Berkam St. Vincent, B. W. Indies
1 Agr-Hotel Whitecotton Bkly 7300
- Corey, William Gardner La Jolla
4 Mec-2646 Dwight way Bkly 4104
- Corlett, Anne Kaighin Reedley
2 LS-2531 Channing way Bkly 7068W
- Corley, Harold Pilger Modesto
2 LS PreL-2521 Channing way Bkly 9306
- Cornejo, Albert Joseph La Pax, Bolivia
1 CE-1534 Steiner st, S F West 3194
- Cornell, Dorothy Martha Prescott, Ariz.
2 LS-2520 Virginia st Bkly 7247
- Cornell, Ezra Brooks San Rafael
2 Mec-18 Culloden Park, S R S.R. 506
- Cornick, Homer Henry Alameda
4 LS-1137 Bishop st, A
- Cornish, Robert Edwin Berkeley
2 LS-1923 Dwight way Bkly 3896
- Cornwall, Frank Tingley Sonoma
1 Agr-2203 Atherton st Bkly 9368R
- *Corrick, Mildred Gwin Berkeley
4 LS-2641½ Channing way Bkly 2276J
- Corrigan, William James Lloyd Los Angeles
2 LS PreL-2607 Hearst av Bkly 5913

- Cortelyou, Raymond Winter
4 LS-1830 Walnut st
Cortés, Nicanor
1 CE-2039 Shattuck av
Cortéz, Helen Magalene
3 LS-1815 Walnut st
Corwin, Gordon Winthrop
2 LS-1932 Home st
Corwin, Thornton Johnson
2 CE-1982 Broadway, S F
Corwin, Victoria Elizabeth
1 LS-2627 Hearst av
*Cosby, Stanley Wallace
4 Agr-86 Eucalyptus rd
Coshaw, William Frederick
1s LS-State School for the Deaf and Blind
Costa, Joseph David
1 Mec-2527 Ridge rd
Costa, Theresa Alicia
4 LS-438 Twelfth st, R
Costanza, Andrew Enid
4 Com-2612 Piedmont av
Costar, William James, Jr.
1 Agr-2646 Dwight way
Costello, Walter Thomas
1 Com-2250 Van Ness av, S F
Cothran, Christine Frances
1 LS-2524 LeConte av
Cottrell, James
3 Mec-868 Forty-fourth st, O
Coubertly, Alma Melissa
1 LS-2308 Warring st
Coughlin, Ella Mary
1 LS-1823 Hearst av
Coughlin, Joseph John
3 Mec-1730 La Loma av
Coughlin, Martin James
1 LS PreL-1731 Berkeley way
Coulston, John Thomas
24 Agr-2717 Hearst av
*Coulter, John Wesley
4 LS-2701 Hearst av
Coulter, Thomas, Jr.
14 Agr-died, January 1, 1920
Coulthurst, Stella Jane
(1) 4 LS-2627 Hearst av
Coulthurst, William Harold
(1) 4 LS-2320 Bancroft way
Covington, Azalia Onita
1 LS-2542 Durant av
*Cowan, Hilda Noble
4 LS-2405 Cedar st
Cowan, William Lawrence
1 Mec-1359 Ward st
Cowden, Alison Elizabeth
(1) 3 LS-6205 Harwood av, O
Berkeley
Bkly 7316W
Manila, P. I.
Bkly 4929
Ogden, Utah
Bkly 3092W
Highland
Bkly 4795W
San Francisco
West 2109
Hayward
Bkly 3229
Berkeley
Bkly 288
Hood River, Ore.
Bkly 6070
Hanford
Bkly 6107
Richmond
Martinez
Bkly 6042
Chico
Bkly 4104
San Francisco
Papt 852
San Diego
Bkly 2521
Oakland
Pied 8539W
Savoy, Ill.
Bkly 1385
Berkeley
Santa Barbara
Bkly 8716
San Bernardino
Pasadena
Bkly 5770
Berkeley
Bkly 2421
Sacramento
Whittier
Bkly 3229
Whittier
Bkly 4676
Fresno
Bkly 1364
San Francisco
Bkly 3470W
Berkeley
Red Cloud, Neb.
Pied 8616W
Oakland
Pied 6814J
Oakland
Frvl 1739W
South Pasadena
Bkly 9306
Berkeley
Bkly 4310
San Francisco
Bkly 6897J
Oakland
Bkly 4230
Oakland
Oakd 3063
Bridgeville
Berkeley
Bkly 8636W
Sutter Creek
Bkly 665
Ukiah
Bkly 102
Sutter Creek
Bkly 665
San Diego
Bkly 4009
Oakland
Kaliispell, Mont.
Bkly 9011
Truckee
Bkly 3201J
Redding
Bkly 2541
Oakland
Bkly 6681
Los Angeles
Bkly 4327J
Dixon
Bkly 1762W
Riverside
Bkly 3694J
Whittier
Bkly 5224
Long Beach
Bkly 4104
Oakland
Pied 4619J
Berkeley
Bkly 8459W
Los Gatos
Bkly 8500
Pasadena
Bkly 8325J
San Diego
Bkly 9140W
Berkeley
Bkly 538W

- Crane, Erma Nell Berkeley
1 LS PreM-1519 Bonita av Bkly 8551J
- Crane, Frank Berkeley
24 Com-1519 Bonita av Bkly 3551J
- Crane, Lona Olive Pasadena
1 LS-2611 Durant av Bkly 4525W
- Crane, Ruth Dorothy Alameda
1 LS-1321 Caroline st, A Ala 3464J
- Cranmer, Leonidas Duncan Fresno
13 LS-2316 Bowditch st Bkly 1416
- Craw, Albert Benjamin, Jr. Fresno
2 Com-2717 Hearst av Bkly 5770
- Crawford, Cornelia Isabel Berkeley
11 LS-2119 Addison st Bkly 3458W
- Crawford, Doris Jeffery Oakland
1 Com-226 Lake Shore blvd, O Mer 3664
- Crawford, Lindsay Alexander Oakland
4 Agr-University Farm, Davis
- Crawford, Susan Margaret Walla Walla, Wn.
4 LS-Channing apts Bkly 7744W
- Crawford, Warren Beckham Oakland
1 LS-2522 Ridge rd Bkly 5950
- Craycroft, Fannie Mae Fresno
1 LS-2624 Virginia st Bkly 3663
- Creity, Edmund Lewis Berkeley
2s Chem-1400 Alcatraz av
- Crenshaw, Lucille Howell El Paso, Texas
1 LS-Berkeley Inn
- Cress, Raymond Vladimir Boulder Creek
1 Com-592 Forty-second st, O
- Crippen, Reid Perkins Los Angeles
3 Mec-2234 Atherton st Bkly 4647J
- Critchlow, Margery Willis Salt Lake City, Utah
3 LS-2723 Durant av Bkly 9531
- Crittenden, Charmian Alameda
3 LS-1443 Eighth st, A Ala 1817W
- *Crittenden, Chester S. Santa Barbara
4 LS-2627 Ridge rd Bkly 2541
- Crocker, Celia Florence Selma
1 LS-2021 1/2 Channing way Bkly 663
- Crocker, Horace Taylor Claremont
(1) 3 Agr-2224 Dana st Bkly 2416J
- Crockett, Emilie Isadore Chula Vista
4 LS-2538 Channing way Bkly 5972
- Crockett, Ethelwyn Beatrice Berkeley
4 LS-2732 Channing way Bkly 7026
- Crockett, Harold Waldo Berkeley
2 Chem-2511 Regent st Bkly 1367J
- Crofts, Eleanor Berkeley
4 LS-2930 Magnolia st Bkly 7823
- Crook, Alice Drusilla Alturas
21 LS-1122 Cornell av, Albany Bkly 822J
- Crook, Ransford Ames Alturas
1 LS PreL-1122 Cornell av, Albany Bkly 822J
- *Crook, Theo Helsel Beaumont, Texas
4 LS-2717 Hearst av Bkly 5770
- Crosbie, Marion Agnes Berkeley
12 LS-1929 Bancroft way Bkly 1774W
- Crosby, Myrtle Ethel Detroit, Mich.
1s LS-1744 Arch st
- Crossfield, Jeannette Ann Waco, Ore.
11 LS-Hotel Whitecotton Bkly 7300
- Cross, Fred Milton Los Angeles
14 LS-2240 Telegraph av Bkly 1249
- Cross, Harold H. U. London, England
1(1) 4 LS-2527 LeConte av Bkly 8498
- Cross, Jean Augusta Loveland, Colo.
3 LS-2030 Lincoln st Bkly 6839W
- Crossan, Edward Peter Bakersfield
3 Com-1730 La Loma av Bkly 8716
- Crotty, Homer D. Oakland
4 LS and 1 Juris-Box 222C, R.F.D. No. 1, O Fvl 665
- Crouch, Joseph Wesley Selma
2s Agr-2601 Channing way Bkly 5904
- Crowell, Andrew Edward Los Angeles
11 Agr-1815 Highland pl Bkly 1682
- Crowell, Elizabeth Gertrude Orange
2 LS-2240 Telegraph av
- Crowell, John Chester Denver, Colo.
(1) 2 Agr-2521 Channing way Bkly 9306
- Crowley, Ernest Charles Suisun
3 LS and 1 Juris-2214 Union st Bkly 2483
- Crowley, Katherine Mary San Francisco
1s LS-577 Fell st, S F Park 2661
- Crowley, Robert Pendleton Stuart Oakland
21 LS PreL-2101 Telegraph av, O Lksd 1700
- Crozer, Ruth Elizabeth Alamo
4 LS-Alamo, Cal. Danville 4F6
- Crozier, Rupert Freeman Inglewood
11 LS PreL-1273 Twenty-sixth av, O Fvl 360
- Cruess, Edna Anne Spreckels
2 LS-2034 Kittredge st Bkly 1660W
- Cruess, Ruth Emily Berkeley
22 LS-1614 Bonita av
- Crum, Bartley Cavanaugh Sacramento
2 LS PreL-2501 Ridge rd Bkly 1335
- Crum, Catherine Claire San Diego
2 LS-2721 Haste st Bkly 8800
- Cruise, Mabel Esther Los Angeles
4 LS-2309 Fulton st Bkly 5489W
- Crutcher, John Page Los Angeles
1 LS-1815 Highland pl Bkly 1682

- *Cryder, Anna Mary Tyrone, Pa.
 4 LS-1921 Haste st
 Crystal, Donald Blake Vacaville
 4 Com-2412 Piedmont av Bkly 5098
 Crystal, Douglas Denton Vacaville
 3 LS PreL-2412 Piedmont av Bkly 5098
 Cuddeback, John E. Berkeley
 1 LS-2642 Benvenue av Bkly 9171W
 Cuffe, Frank Conway San Rafael
 2 Min-2601 Channing way Bkly 5904
 Culberson, Victor Agee Silver City, N. M.
 1 Min-2240 Telegraph av
 Culey, Roy Trescole San Bernardino
 1 Com-2438 Durant av Bkly 8757W
 Culpepper, Leora Mae Blythe
 3 Com-1919 Bancroft way Bkly 6845J
 Culver, Gladys Mary Tulsa, Okla.
 1(1) 2 LS-526 Eighteenth st, O
 Lkad 3134
 Culver, Walter Llewellyn Los Angeles
 3 LS PreA-2101 Telegraph av, O
 Lkad 1700
 Culvyhouse, Edwin John Berkeley
 14 LS PreM-2481 Dwight way
 Bkly 5587J
 Culvyhouse, Ethel Olive Berkeley
 4 LS-2481 Dwight way Bkly 5587J
 Cummings, Effie May Sacramento
 8 LS-2341 Carlton st Bkly 9006W
 Cummings, Gale Taylor Lincoln, Nebr.
 3 LS-8180 Eton av Pied 6595W
 Cummings, Richard Wilkinson Berkeley
 1s Com-2519 1/2 Durant av Bkly 6081J
 Cummings, Ross Berkeley
 2 Chem-2420 Fulton st Bkly 2602
 Cuneo, Eva Rose San Francisco
 1 LS-1692 Howard st, S F Mrkt 6121
 Cunningham, George Magee Berkeley
 4 CE-2707 Parker st Bkly 1974
 Cunningham, Geraldine Harriet Ukiah
 1 LS-2330 College av Bkly 1803
 Cunningham, Hazel Hart San Francisco
 12 LS-252 Central av, S F
 Cunningham, Marion Leone Portland, Ore.
 1 LS-2328 College av Bkly 3590W
 Curdy, Marian Helen Oakland
 2 LS-2739 Bancroft way Bkly 204
 Curley, Mary Blake Berkeley
 2 LS-2239 Haste st
 Curren, Fred Samuel Cabazon
 14 LS PreM-2617 Durant av Bkly 822
 Currie, Joseph Archibald Oakland
 2s Com-3224 West st, O
 Curtis, Cecile Fresno
 1 LS PreM-2314 Haste st Bkly 4026
 Curtis, Marion Geneva Los Gatos
 12 LS-Hotel Claremont Bkly 9300
 Cushman, Dorothy Madalene Los Angeles
 (1) 3 LS-2421 LeConte av Bkly 3062
- Cushman, Faith Berkeley
 3 LS-Sequoia apts Bkly 7422W
 Cushman, Glenn Ford Dixon
 2 LS PreM-2406 Dana st Bkly 7713
 Custer, Clyde C. Covina
 1 LS-2214 Bancroft way Bkly 1431W
 Custer, Ferdinand Varela Princeton
 2 LS-1815 Highland pl Bkly 1682
 Custodio, Crisogono Ropelos Iloilo, Panay, P. I.
 2 LS PreL-1822 University av
 Bkly 1283
 Cutter, Robert K. Berkeley
 4 LS and 1 Med-1821 Spruce st
 Bkly 2231
 Cutting, Grace Antoinette Riverside
 4 LS-1550 La Loma av Bkly 7516
 Daberer, Elsie Anne San Francisco
 1 LS-34 Castro st, S F Park 663
 Dadmun, Erving Emerson National City
 1 LS PreL-2144 University av
 Bkly 1128
 Dahl, Helen Jeanette Oakland
 1s LS-4160 Terrace st, O Pied 1700W
 Dahl, Joseph Martin Berkeley
 1 LS-2434 1/2 Telegraph av Bkly 850
 Dahl, Parthenia Grace San Francisco
 1 Com-574 Eighteenth av, S F
 Bay View 1052
 Dahlquist, Scott Anthony Salt Lake City, Utah
 (1) 2 Com-2801 Durant av Bkly 37
 Dahnken, Corsten Francis San Francisco
 1 LS PreL-Hotel Whitecotton Bkly 7300
 Dailey, Gardner Acton Long Beach
 1 Com-21 Hillside court
 Dalby, Alfred Reginald Los Angeles
 1(1) 8 CE-584 Twenty-fourth st, O
 Oakd 7372
 Dalby, William Thomas Berkeley
 1 LS-2620 Bancroft way Bkly 8870
 Daley, Gwendola Garnette Healdsburg
 1 LS-1181 Colusa av
 Daley, John Peter Gilroy
 4 CE-2701 Hearst av Bkly 2421
 Dallam, Marion Oakland
 1 LS-480 Adams st, O Oakd 6130
 Dallman, Ella Grace Big Timber, Mont.
 3 LS-2454 Ashby av Bkly 4758W
 Dalton, Dennis Harold Sacramento
 1 LS-2620 Bancroft way Bkly 8870
 Dalton, Evelyn Ruth Pasadena
 1 LS-2310 Hilgard av Bkly 8474W
 Dalton, John Edward Sacramento
 1 LS-2620 Bancroft way Bkly 8870
 Daly, John Varian Berkeley
 1 Com-2208 Stuart st Bkly 4982W
 Daly, Morris Allen Los Angeles
 1 LS PreA-1726 Euclid av Bkly 6706

- Davis, Earl A. Lindsay
 '3s Com-2627 Ridge rd Bkly 2541
 Davis, Eugenia Woodland
 1 LS-2805 Kelsey st Bkly 1679J
 Davis, Frank Fresno
 1 LS-2315 Dwight way Bkly 4026
 Davis, Fred Elmo Eureka
 2 Mec-2212 Bancroft way Bkly 6391W
 Davis, Freeman Alling Oakland
 2 LS-5901 Ross st, O Pied 2658J
 Davis, George Erwin Williams Berkeley
 '4 LS PreL-2316 Bowditch st
 Davis, Gertrude Hastings Berkeley
 2 LS-2229 Vine st
 Davis, Guy Williams North Platte, Nebr.
 '1 Com-2531 College av
 Davis, Harold Lambuth Healdsburg
 2 CE-2436 Durant av Bkly 6653W
 Davis, Harry Thornton Alameda
 1 Mec-901 Paru st, A Ala 1421J
 Davis, Helen Mary Eldorado Springs, Mo.
 (1) 4 LS-2137 Hearst av Bkly 7920W
 Davis, Iva Rebecca Kerman
 2 LS-2220 Union st Bkly 8469W
 Davis, John Frederick Colorado Springs, Colo.
 '1s Com-2500 Durant av Bkly 4539J
 Davis, John Roger Los Angeles
 '1 Com-2429½ Bowditch st
 Davis, Joseph Jefferson, Jr. Santa Monica
 1 Agr-2426 Virginia st Bkly 564
 Davis, Katherine Savannah, Georgia
 (1) 2 LS-2527½ Hearst av
 Davis, Kenneth Ashton El Centro
 '1 LS PreL-2606 Bancroft way
 Davis, Lesleigh Harold Oakland
 2 LS-1560 Thirty-fourth av, O Frvl 1823W
 Davis, Loring Berkeley
 2 LS PreL-2435 College av Bkly 8945W
 Davis, Mary Margaret Elmwood, Ill.
 1 LS-1632 Spruce st Bkly 570J
 Davis, Marion Phoebe Los Angeles
 2 LS-2435 Hilgard av Bkly 6406
 Davis, Maxine Berkeley
 1 LS-1915 Marin av Bkly 1883
 Davis, Melissa Ellen Reedley
 2 LS-2434 Channing way Bkly 5957W
 Davis, Reva Minnie San Francisco
 1 LS-1250 Hyde st, S F Pspt 6066
 Davis, Robert Rees Berkeley
 1 Com-3026 Benvenue av
 Davis, Ruth Evelyn Kerman
 1 LS-2220 Union st Bkly 8469W
 Davis, Ruth Margaret San Francisco
 '1 LS-1430 Masonic av, S F Park 586
 Davis, Ruth May Mountain View
 2 LS-2221 Bancroft way Bkly 4647W
 Davis, Virgil B. Los Angeles
 3 Agr-1925 Home st Bkly 2434W
 Davis, Virginia Leah Woodlake
 1 LS-Oxford apts Bkly 6262J
 Davis, William Rude Oakland
 2 Mec-404 Twenty-ninth st, O Oakd 7282
 Davis, William Schenck Fort Scott, S. F.
 '1 Mec-1925 Euclid av
 Davis, William Stone Berkeley
 (1) 2 LS-2316 Bowditch st Bkly 1416
 Davison, Prosper Harvey Riverside
 (1) 3 LS-2420 Channing way Bkly 7404W
 Davison, William Walter Hollywood
 3 Mec-1726 Euclid av Bkly 6706
 Davisson, Richard Kimball Oakland
 '1 Com-438 Staten av, O Oakd 6479
 Dawes, Robert Earl Boséman, Mont.
 '1(1) 3 Mec-2276 Shattuck av Bkly 8300
 Dawkins, Don Gammage San Diego
 3 Mec-1509 Arch st Bkly 8236J
 Dawson, Paul Eugene Pacific Grove
 1 LS-2214 Union st
 Day, Bessie McNamara Oakland
 1 LS-575 Valle Vista av, O Lkad 811
 Day, Floyd Jess Ukiah
 2 LS PreL-2401 Durant av Bkly 6504
 Day, Henry Lawrence Wallace, Idaho
 1 Min-2415 Prospect st Bkly 5068
 Day, Margaret B. Woodland
 3 LS-2721 Haste st Bkly 8800
 Day, Wendell Chester Loomis
 4 LS-2627 Ridge rd Bkly 2541
 Dayhuff, Walter Clair Santa Rosa
 2 Chem-1536 Bonita av
 Dayton, Lawrence Edward Sebastopol
 '2 LS-2511 Dwight way Bkly 7079W
 de Aberle, Sophie San Francisco
 1 LS PreM-2714 Ridge rd Bkly 9093
 De Alwis, Wilson James Colombo, Ceylon
 '1s LS-2248 Telegraph av Bkly 9011
 Deamer, Helen Catherine Berkeley
 1 LS-2434 Piedmont av Bkly 6256
 Deamer, William Callahan Berkeley
 1 LS PreM-2434 Piedmont av Bkly 6256
 Dean, Calvin James Fullerton
 (1) 2 Min-2425 LeConte av Bkly 4334
 Dean, Carolyn Martinez
 1 LS-Broadway apts, O Lkad 2422
 Dean, Charles Amos San Francisco
 '1 Mec-70 Hartford st, S F

- Dean, Margaret Lucertia Curl Oalexico
 1 LS-2110 Kittredge st
 Dean, William Frishe Carlyle, Ill.
 2 LS PreL-935 Modoc st Bkly 8112J
 Deane, Joseph Tennison San Francisco
 4 Min-2124 Hyde st, S F Frkn 8005
 Dearborn, Edward Oakland
 1 LS PreL-1212 E. Fifteenth st, O Mer 3032
 Deardorf, Dorothy Alameda
 3 LS-1106 Grand st, A Ala 676J
 de Armond, Marie Jane Van Nuys
 1s LS-743 Polk st, S F Frkn 4120
 De Asis, Cesareo Denuña
 Dumangas, Iloilo, P. I.
 1 LS preM-1822 University av
 de Asis, Guillermo Philippine Islands
 1 Agr-1822 University av
 Debeau, Bertha P. Berkeley
 1 LS-2428A Durant av Bkly 6032W
 Debeau, Maurice A. Ditiatki, Kiev, Russia
 3 Chem-2423A Durant av Bkly 6032W
 De Bell, Virginia San Francisco
 1 LS-3031 Dana st Bkly 810W
 Debely, Nemo Bisbee, Arizona
 2 Chem-2417 Prince st
 de Berton, Lorette Crilly Oakland
 12 LS-2520 Durant av Bkly 1675
 de Boer, Acint Hermann The Hague, Holland
 1 CE-1428 Arch st Bkly 1175J
 de Brell, Maude Allen Oxnard
 1 LS-2328 Bowditch st Bkly 2152W
 de Bussieres, Hugo San Diego
 1(1) 3 Chem-732 Fifty-sixth st, O Pied 2948W
 De Camp, Orville B. Santa Monica
 1 LS PreL-2621 Haste st Bkly 2044J
 Decatur, Margaret Eugenia San Francisco
 2 LS PreL-1475 Forty-fourth av, S F Snt 282
 De Celle, Katherine Woodland
 12 LS-2714 Ridge rd Bkly 9093
 Decker, Iris Luzelle Berkeley
 1 LS-1930 Center st Bkly 329
 Decker, Wyatt Cecil Boulder, Colo.
 1 Com-6452 Benvenue av, O Pied 7967J
 de Cou, Sarah Ellis Berkeley
 1 LS-2507 Woolsey st Bkly 4861
 Deeds, Karl Scott San Diego
 2 LS-2345 College av Bkly 62
 Deeney, Genevieve Theresa Half Moon Bay
 1 LS-3232 Twenty-second st, S F
 Deering, Ella Marston San Francisco
 1 LS-2335 Warring st Bkly 6744
 De Ferrari, Elizabeth Myrtle Tuolumne
 1s LS-5310 Gaskill st, O
 De Ferrari, Mildred Rose Sonora
 2 LS-840 Lake Shore av, O
 de Forest, Lockwood, Jr. Santa Barbara
 1 Agr-1441 Bonita av Bkly 5016W
 de Freitas, Edmund Frank Oakland
 4 LS and 1 Juris-418 E Eighteenth Mer 3800
 de Ghetaldi, Fernando San Francisco
 3 LS-1641 Page st, S F Mrkt 2585
 Degnan, Ruth Threasa San Francisco
 1 LS-2428 Pine st, S F West 7012
 De Golia, Edwin Baldwin Oakland
 2 Com-411 Fairmont av, O Oakd 5291
 de Graaf, Afina Sophia Groningen, Holland
 1s LS-2221 Atherton st Bkly 2035J
 *de Graff, Margaret Navarre Berkeley
 4 LS-2109 Shattuck av Bkly 6684
 Deimel, Edgar Bertram Los Altos
 1 Com-2247 Bancroft way Bkly 3878
 Deimel, Henry Lito, Jr. Shortlands, Kent, England
 4 LS-2247 Bancroft way Bkly 3873
 Deitrick, Aletha Elizabeth San Francisco
 2 LS-2811 Regent st Bkly 303W
 de Kay, Mary Valerie Berkeley
 4 LS-2027 Delaware av Bkly 3712
 De Lap, Octavia Dell Klamath Falls, Ore.
 4 LS-2519 Hillegass av Bkly 477
 De Lappe, Russell Guerne Modesto
 4 LS PreA-2610 Durant av Bkly 7804
 De Lassaix, Harry Edward Orland
 1 LS-2213 Union st Bkly 3233J
 Delius, Herbert August Berkeley
 2 Mec-1324 Bay View pl Bkly 3031J
 Delius, Irma Berkeley
 4 LS-1324 Bay View pl Bkly 3031J
 De Long, Evelyn San Francisco
 2 LS-259 Buena Vista av, S F Park 6333
 de Lorimier, Alfred Alexandre Fort Benton, Mont.
 1 LS PreM-1748 Grove st
 de Lorimier, Marguerite Louise Fort Benton, Mont.
 1 LS-1748 Grove st
 Delpoit, Mary Ellen Berkeley
 1s LS-1847 Bancroft way Bkly 6883W
 De Marais, Lurline Victoria San Francisco
 1 LS-1296 Haight st, S F Mrkt 4099
 Demarest, Adrienne Berkeley
 1 LS-1710 Walnut st Bkly 5162W
 Demarest, Sydney Haughton Berkeley
 3 LS-1710 Walnut st Bkly 5162W
 De Martini, Walter John San Francisco
 2 CE-2869 Octavia st, S F West 5358
 de Mello, Segefredo Silveira Porto Alegre, Brazil
 1s Agr-2248 Telegraph av Bkly 9011
 Dement, Donald Eugene San Diego
 14 LS and 1 Med-2625 Hearst av Bkly 9535

- Deming, Dorothy
3 LS-2417 LeConte av
Dempster, Barbara
1 LS-2204 Glen av
Dempster, Fred Harper
2 Chem-2204 Glen av
Dempster, Milen Cotrel
2 Com-1512 Scenic av
Demsey, Raymond Otis
1 Com-1808 Shattuck av
Denbigh, Helen Bertha
*1 LS-2610 Piedmont av
Denham, Evelyn Marshall
1 LS-2622 Benvenue av
De Nick, Rachel Louise
4 LS-1547 Euclid av
Denison, Alan Mervy
*2 LS-332 Hobart st, O
Denman, Katherine May
3 LS-2818 Russell st
Denning, Margaret
(1) 3 LS-2428 College av
Dennis, Dorothy
*1 LS-2261 Fulton st
Dennis, Oda Bernice
3 LS-2648 Stuart st
Dennison, Keith Ellsworth
1 Min-5828 Adeline st, O
Denny, Dorothy Blanche
2 LS-2821 Bancroft way
Denny, Homer Cadwell
1s Com-6026 Auburn av, O
Densmore, Ralph Kenneth
1 Agr-2406 Bancroft way
Denton, Lucrezia Harden
*2 LS-2428 Channing way
Denton, Richard Elbert
*2 LS-435A Redwood rd, O
de Obarrio, John Luis
*1 LS PreM-2425 LeConte av
Deputy, Maybelle
1 LS-49 Wildwood av, P
De Puy, Frances Kyle
1 LS-2318 Telegraph av
Derby, Edward Monroe
(1) 2 Mec-45 El Camino Real
Derby, Marian
1 LS-45 El Camino Real
De Roulet, Henry
2 Com-1726 Euclid av
De Roy, Irvin Emanuel
3s LS-2228 Channing way
Derr, Jestine W.
1 LS-3155 Peralta av, O
Derr, Vilas Pauline
*1 LS-2318 Telegraph av
De Sellem, Wesley Harbottle
2 Com-2711 Parker st
Desmond, John Stephen
4 LS-5156 Shafter av, O
- East Auburn
Bkly 5850
Berkeley
Bkly 1427
Berkeley
Bkly 1427
Berkeley
Bkly 3871
Berkeley
Bkly 7412W
Berkeley
Bkly 9380
Berkeley
Bkly 7676W
Los Angeles
Bkly 6681
Oakland
Oakd 5685
Berkeley
Bkly 4550
Davis
Bkly 1038J
Logansport, La.
Bkly 1111
Sutter Creek
Bkly 1525J
Oakland
Etna Mills
Etna Mills
Pied 6808W
Riverside
Los Angeles
Oakland
Frvl 2926J
Alameda
Bkly 4334
Piedmont
Pied 7011
Newark, N. J.
Bkly 5964
Berkeley
Bkly 417J
Berkeley
Bkly 417J
Los Angeles
Bkly 6706
Berkeley
Oakland
Stockton
Bkly 5964
Long Beach
Burney
Pied 5995J
- Desmond, Matthew Francis
2 Med-Relief Home, S F
Desery, Edna Lucile
(1) 3 LS-2328 Bowditch st
De Tar, Vern William
4 Agr-University Farm, Davis
de Tarr, Adraith
*1(1) 3 LS-2901 Forest av
Deuel, Phillip De Vere
2 LS PreL-1402 Spruce st
Deuel, Victoria Beatrice Kinsler
14 LS-1739 Virginia st
Detoy, Helen
*2 LS-817 Indian Rock av
Detrick, Edington Havemeyer
*1 LS-2907 Hillegass av
de Urloste, Anita Mary
*1 LS-512 Van Ness av, S F
*Devaul, Adelbert
4 LS-2428 Bancroft way
*Devenish, Olive
4 LS-2314 Dana st
Devereaux, Maud Mary
*1 LS-2214 Dana st
De Vilbiss, Clyde Boyer
1 Agr-2406 Bancroft way
De Vitt, Helen
3 LS-2525 Durant av
Devney, May Kathryn
1 LS-2817 Ashby av
de Vries, Ida Cooper
*1s LS-1451 Twenty-fifth av, S F
*Dewar, Margaret MacDonald
4 LS-2630 Durant av
Dewdney, Ross
1 LS-1251 Third av, O
Deweese, George Bradley
*2 LS PreM-2312 College av
Dewey, Arthur Elmer
2 Agr-2647 Dwight way
De Witt, Donald Chase
4 LS and 1 Juris-5625 College av, O
DeWitt, Georgia Alaska
*1 LS-5744 Gaskill st, O
De Witt, Melba
4 LS and 1 Juris-2739 Bancroft way
Dewitt, Wilmar Weston
2 Chem-2001 Allston way
Dexter, Charles Crossen
3 LS and 1 Juris-2620 Bancroft way
Dexter, Delbert Morgan
*2 CE-2226 Haste st
Dexter, Harold
4 Com-1608 Santa Clara av, A
- Burney
Snst 1530
Santa Ana
Bkly 2152W
Orosi
Berkeley
Bkly 9584J
Hollywood
Yuma, Ariz.
Fresno
Bkly 8790J
Berkeley
Bkly 2027
San Francisco
Mrkt 9006
Berkeley
Bkly 3034
Calgary, Alberta, Canada
Bkly 5043W
Pasadena
Bkly 1160
Patterson
Bkly 6428
Fort Worth, Texas
Bkly 6412
Berkeley
Bkly 7009W
San Francisco
S F
Millbrae
Bkly 157W
Kelseyville
Portland, Ore.
Antioch
Bkly 204
Tuolumne
Bkly 6710
Vallejo
Bkly 8870
Fresno
Alameda
Ala 2018

- *Dexter, Paul De Pauw Fresno
4 LS and 1 Juris-2428 Dwight way
Bkly 4244W
- De Young, Isabel May Lodi
4 LS and 1 Med-2749 Dwight way
Bkly 204
- Desendorf, Nelson Portland, Ore.
1(1) 4 Chem-2845 College av Bkly 62
- D'Heur, Allard B. San Francisco
2 LS-2330 Telegraph av Bkly 9227
- Diamond, Louis San Francisco
3 Agr-University Farm, Davis
- Diamond, Simon Oakland
1 Mec-R. 2, Box 386, Hayward
- Dickerson, Loretta Nioma Oakland
1 LS-907 Magnolia st, O Lkad 1259
- Dickey, Dorothy Dimond Piedmont
1 LS-122 Dracena av, P Pied 1151
- Dickhaut, Marion Carson Jenny Lind
4 LS-2228 Chapel st Bkly 4558
- Dickleson, Marjory Helen San Francisco
1 LS PreA-138 Park Hill av, S F Mrkt 7871
- Dickinson, Frank Jones San Francisco
1 Mec-2522 Warring st Bkly 2995J
- Dickover, Stanley Ray Santa Barbara
4 LS-2501 Ridge rd Bkly 1385
- Dickson, Catherine De Wolf Loleta
1 LS-2417 LeConte av Bkly 5650
- Dickson, Eleanor Loleta
4 LS-2214 Dana st Bkly 1160
- Dickson, Holton Carrol Ogden, Utah
1 LS-2647 Durant av Bkly 102
- Dickson, Ines Adrienne Fortuna
3 LS-2111 Virginia st
- Dickson, Jessie Hedges Soleta
1(1) 2 LS-2214 Dana st Bkly 1160
- Dickson, Joe Antioch
1 LS PreL-385 Ive av, S F Mrkt 5464
- Diersaen, Norman Edwin Sacramento
3 LS PreM-Berkeley Inn Bkly 6370
- Dietle, Terys Ramoun San Francisco
3 LS-2519 Ridge rd Bkly 7614
- Dietrich, Monica Rose Pasadena
13 LS-2115A Durant av Bkly 7073J
- Dietz, Grace Raymond Berkeley
2 LS-1805 Francisco st
- Diffenbacher, Georgia Louise Greenville, Texas
1(1) 3 LS-2214 Dana st Bkly 1160
- Diggles, Lida Esther Salmon, Idaho
2 LS-2717 Channing way Bkly 808
- Dildine, Lena Lavina Modesto
1(1) 3 LS-2500 Bancroft way Bkly 1848
- Dildine, Myrtle Adella Modesto
1 LS-2500 Bancroft way Bkly 1848
- Dilg, Elma Pomona
4 LS-1505 Milvia st Bkly 2177J
- Dill, Nima May Salinas
1 LS-2542 Durant av
- Dilley, Perry Los Angeles
2 LS-2240 Telegraph av Bkly 1249
- Dimond, William Henry San Francisco
2 LS-2529 Hearst av Bkly 40
- Dingley, Kathryn Laura Oakland
4 LS-1946 Seventh av, O Mer 1016
- Dinkelspiel, Martin Jerrold San Francisco
14 LS-Trechehaven apts Bkly 3814W
- di Nola, Antoinette Elisabeth San Francisco
1 LS PreL-2627 Hearst av Bkly 4009
- Dinsmore, Julia Dorothy Riverside
(1) 3 LS-2611 Durant av Bkly 4525W
- Dinsmore, Wallace Cutter Marysville
2 LS-2401 Durant av Bkly 6504
- Dinwiddie, John Ekin Berkeley
1 CE-2048 Avalon av Bkly 2811
- Dissinger, Ira Thorne-Clement Sunbury, Pa.
(1) 4 Com-2248 Telegraph av Bkly 9011
- Ditmer, Edith Myrtle Minot, N. D.
1(1) 2 LS-2743 Fulton st
- Dittman, Charles Herman San Antonio, Texas
1 LS PreM-1908 Grove st
- Diven, Quay Stowell Santa Paula
(1) 2 Min-2618 College av
- Dixon, Alida Call Berkeley
1 LS-Morrill apts Bkly 4812W
- Dixon, Evelyn Ruth Elk Grove
2 LS-5724 Broadway, O Pied 5021J
- Dixon, William Kiley Oakland
1 Mec-2133 Broadway, O Lkad 8422
- Doak, Sylvia Coffing San Francisco
1 LS-2515 LeConte av Bkly 4561
- Dobbins, Sinclair Montgomery Vacaville
3 LS PreL-2412 Piedmont av Bkly 5098
- Dobson, Joseph Bernard Oakland
1s Mec-835 Thirty-fifth st, O
- Dodds, Charles Henry Calexico
2 LS PreM-2120 Kittredge st Bkly 2090
- Dodds, Clifford T. San Diego
3 Agr-2344 Eunice st Bkly 1050J
- Dodge, Lewis Milton Pomona
1 Com-2515 Dwight way Bkly 6565
- Dodge, Myrtle Alice Orleans, Neb.
1 LS-2581 Noble av, A Ala 1487J
- Dodson, Leonidas Polk, Jr. Sacramento
2s LS PreL-1815 Highland pl Bkly 1682
- Dogan, Kenneth Daniel San Francisco
1 LS-729 Clayton st, S F Park 3982
- Doherty, Josephine Cecilia Los Angeles
3s LS-1405 Spring way

Dole, Floyd Harris	Russell, Kans.	Dornin, May	Berkeley
(1) 2 LS PreA-2411 Virginia st	Bkly 7205W	2 LS-2119 Addison st	Bkly 7173W
Dolliver, Emerson	Kentfield	Dorr, Charles Marble	Berkeley
1 CE-2500 College av	Bkly 5942	2 LS-2240 Telegraph av	Bkly 2249
Dolson, Noelle Bernice	Willits	Dorris, Arthur Darrel	Alturas
1 LS-2627 Hearst av	Bkly 4009	1 Agr-2501 Ridge rd	Bkly 1335
Donahoo, Percy Sheldon	Oakland	Dorris, Rachel Cyrus	Alturas
21 LS-966 Thirty-sixth st, O	Pied 2246	1 LS-2321 Ward st	Bkly 4409J
Donald, David Elliott	Lone Pine	Dornett, Ottis Crosswell	Fallbrook
1 Chem-1583 Walnut st	Bkly 6849J	1 Com-1547 Euclid av	Bkly 6681
Donald, Frank Robert	Berkeley	Dorsey, Copeland Victor	Grass Valley
2s LS-2001 Bancroft way	Bkly 6367J	4 Mec-2241 Rose st	Bkly 1433W
Donald, William Robert	San Francisco	Dorsey, Inez Virginia	Berkeley
21 LS-3603 Twenty-third st, S F	Valen 6307	2 LS-2241 Rose st	Bkly 1433W
Donelson, Richard Nelson	San Francisco	Dorsey, Violette Virginia	Grass Valley
13 LS-19 Henry st, S F	Modesto	2 LS-2630 Channing way	Bkly 2761W
Donkin, Doris Merle	Modesto	Doss, Gerald Jasper	Los Angeles
2 LS-2218 Blake st	Bkly 8526W	2 Chem-2328 Channing way	Bkly 2004
Donlon, Elizabeth Corinne	Oxnard	Doty, Ira Glenn	Oakland
3 LS-2519 Ridge rd	Bkly 7614	2 LS-1501 Fortieth av, O	Frwl 2211W
Donnell, Frances	Reedley	Dougherty, Marjorie Pauline	Long Beach
(1) 3 LS-2520 Durant av	Bkly 1675	(1) 2 LS-2334 Bowditch st	Bkly 9358W
Donnelly, Bernice Minnie	San Francisco	Dougherty, Mary Adelaide	Los Angeles
1 Com-3031 Dana st	Bkly 310W	4 LS-2520 Cedar st	Bkly 1444
Donogh, Standish Wilder	Berkeley	Dougherty, Samuel Kimmel	Santa Rosa
2 LS-2412 Piedmont av	Bkly 5098	13 LS-2610 Durant av	Bkly 7804
Donohue, Florence Gertrude	San Francisco	Doughty, Ralph Burgess	Berkeley
21 LS-482 Third av, S F	Pac 5872	3 Agr-University Farm, Davis	Pasadena
Donovan, Dorothy Aileen	Santa Rosa	Douglas, Dorothy Guernsey	Ala 53
2 LS-2520 Virginia st	Bkly 7247	(1) 3 LS-520 Lincoln av, A	East Auburn
Donovan, Frances Genevieve	San Francisco	3 LS-2510 Stuart st	Bkly 8259J
(1) 3 LS PreL-940 Haight st, S F	Mrkt 3316	Douglass, George Reginald	San Francisco
Donovan, Hugh Henry	San Francisco	3 LS-2617 Durant av	Bkly 822
(1) 3 LS PreL-940 Haight st, S F	Mrkt 3316	Douglass, Jessie Mona	Oakland
Donovan, Nadine Guerne	Santa Rosa	2 LS-1052 Forty-eighth st, O	Pied 4747W
4 LS-2721 Haste st	Bkly 8800	Douglass, Velma Etta	San Diego
Doolittle, Esther Beaumont	Los Angeles	1 LS-2010A Vine st	
(1) 4 LS-2500 Durant av	Bkly 9082J	Douthit, Taylor Lee	Oakland
Doolittle, Herbert Elliott, Jr.	San Diego	1 Agr-224 Athol av, O	Mer 2335
2 CE-2421 Virginia st	Bkly 1171J	Dow, Dorothy Ruth	Oakland
Doolittle, Kathryn Louise	Berkeley	2 LS-5622 Ocean View dr, O	Pied 2590
11 LS-Hotel Whitecotton	Bkly 7300	Dow, Edward Donald	Monrovia
Doran, Florence Waters	Los Angeles	12 Mec-2532 Hillegass av	Bkly 561
1 LS-2627 Hearst av	Bkly 3229	Dow, Gladys Opal	Taft
Doremus, Lena Alice	Somis	2 LS-2318 1/2 Bancroft way	
(1) 2 LS-2436 Channing way		Dow, Margaret Isabel	Winterset, Iowa
Dormody, Horace Leonard	Placerville	1(1) 2 LS-2627 Hearst av	Bkly 3229
3 LS PreM-2412 Piedmont av	Bkly 5098	Dowdell, Elmore Audifred	San Francisco
Dorn, Beatrice E.	San Francisco	4 LS-168 Jordan av, S F	Pac 6841
4 LS and 1 Med-562 Tenth av, S F	Pac 5486	Downer, Irvin Clyde	Modesto
Dorn, John Harrold	San Francisco	3 LS-2610 Durant av	Bkly 7804
2 Med-Stanford Court apts, S F	Krny 769	Downey, Cecilia Catherine	Oakland
Dorn, Paul Austermell	Los Angeles	2 LS-2705 Linden st, O	Lksd 1367
2 Chem-1631 Euclid av		Downing, Dorman Perkins	Berkeley
		2 LS PreM-2607 Hearst av	Bkly 5913
		Downing, George W.	Berkeley
		4 LS and 1 Juris-2416 Allston way	Bkly 1141

- Downing, Lillian May Portland, Ore.
 12 LS-1700 Euclid av Bkly 6789
- Downs, Helen Sutter Creek
 3 LS-2633 Etna st Bkly 4066
- Downs, Jennie Birdella Riverside
 2 LS-2333 Channing way Bkly 8206
- Downs, Robert Campbell Sutter Creek
 3 Mec-2601 Channing way Bkly 5904
- Doyal, Waldemar Ernst Berkeley
 2 Agr-1531 Henry st
- Doyle, Frank P. San Francisco
 (1) 2 Com-199 Randall st, S F
 Msn 8400
- Doyle, Franklin Bergson Berkeley
 3 Mec-2717 Hearst av Bkly 5770
- Doyle, Harry Lee Santa Barbara
 3 Mec-2317 1/2 Durant av
- Doyle, Simon A. San Francisco
 4 LS and 1 Med-732 Castro st, S F
 Valen 1878
- Doyle, William Burke San Francisco
 1 Com-4134 Twentieth st, S F Msn 227
- Dozier, David Ford Susanville
 2 LS PreM-2248 Telegraph av Bkly 9011
- Drader, Cecil Ryckman Victoria, B. C.
 (1) 3 LS PreM-2214 Union st Bkly 2483
- Draeger, Rupert Harold. Sacramento
 1 LS PreM-2228 Dana st Bkly 1053
- Drake, Albert Lee Fullerton
 3 Agr-2248 Telegraph av Bkly 9011
- Drake, Dorothy Jane Hollywood
 1 LS-2338 Channing way Bkly 8142
- Drake, Merle Leroy Berkeley
 1 LS PreL-24 Panoramic way Bkly 6695J
- Draper, Earl Vasco Los Angeles
 1 Min-2008 Shattuck av Bkly 5135
- Drees, Lawler Adolph Petaluma
 1 LS-1608 Arch st Bkly 6451J
- Dreisake, Alice Virginia Hollywood
 4 LS-2509 College av Bkly 7344J
- Dresel, Gustav Sonoma
 4 Mec-2124 Kittredge st Bkly 1229J
- Dresow, Abraham Morris San Francisco
 2 LS PreL-1715 Waller st, S F Park 3270
- Drew, Alice Lucile Dixon
 1 LS-2347 Prospect st Bkly 1685
- Drew, James Edward Oakland
 3 LS PreL-1051 E. Thirty-third st, O Mer 1275
- Drew, John Fredricks San Francisco
 2 LS PreM-67 Pierce st, S F Mrkt 2636
- Drew, Reginald Eastman Palo Alto
 3 Agr-2411 Virginia st Bkly 7205W
- Driggs, Burton Wells Berkeley
 3 LS-725 Peralta st
- Driggs, Thelma Vienna Sawtelle
 1s LS-56 Rio Vista av, O Pied 3571J
- Driscoll, Mabel Bernardine Watsonville
 1 LS-2155 Ward st Bkly 4654J
- Droke, Robert Leon Sacramento
 1 CE-2530 Ellsworth st Bkly 3990
- Drum, Allan Verdier Burlingame
 1 LS-2329 College av Bkly 6134W
- Dryer, Elbert Orvil Deming, N. M.
 1 Mec-2231 Durant av Bkly 5710W
- Du Bose, Horace Mellard Berkeley
 1 LS PreL-2908 Russell st Bkly 1382J
- Du Bose, Livingston Vaughn Berkeley
 1 Com-2001 Channing way Bkly 815
- Dubovsky, Bertha Judith Oakland
 4 LS-492 Stow av, O Mer 4167
- Dubovsky, Sophie Edith Oakland
 2s LS-492 Stow av, O Mer 4167
- du Buisson, Gerhardus Hubertus Senekal, South Africa
 1s Agr-2203 Atherton st
- Ducey, Elizabeth Carney Portland, Ore.
 (1) 2 LS-2417 LeConte av Bkly 5650
- Dudley, Rees Thompson Santa Clara
 4 LS and 1 Juris-2617 Durant av Bkly 822
- Dudman, Evelyn Louise Detroit, Mich.
 1 LS-1652 Marin av Bkly 8475J
- Duff, Thomas Allen Grosse Ile, Mich.
 1 LS PreA-2425 Hilgard av Bkly 522W
- Duffy, Hugh Lawrence Oakland
 4 CE-3057 Broadway, O Lkad 204
- Duffy, Thomas George Berkeley
 1s Com-2336 Channing way Bkly 2165
- Duffy, Wallace Dean Berkeley
 2 LS-2336 Channing way Bkly 2165
- Duhring, John Herman Sonoma
 4 LS-2251 College av Bkly 9107
- Duhring, Ruth Kinkead Berkeley
 14 LS-2714 Ridge rd Bkly 9098
- Duhring, Stephen Ryland Sonoma
 1 LS PreL-2251 College av Bkly 9107
- Dukes, Dorothy Isabella Oakland
 2 LS-211 The Uplands Bkly 1
- Duncan, Elizabeth Charlotte Campbell
 1 LS-2211 Atherton st
- Duncan, George William, Jr. San Francisco
 1s CE-49 Alma st, S F Park 2880
- Duncan, Terrel LeRoy Ukiah
 1 Agr-2627 Ridge rd Bkly 2541
- Duncan, William Tilden San Francisco
 13 Chem-925 Divisadero st, S F West 1325
- Dunievitz, Max Denver, Colo.
 4 LS and 1 Med-2223 Union st
- Dunn, Aleda Constance Oakland
 1 LS-307 Twenty-first st, O Lkad 3834
- Dunn, Claud Matson Oakland
 12s LS PreL-307 Twenty-first st, O Lkad 3834

Dunn, Dorothy Gertrude 13 LS-2627 Hearst av	Eugene, Ore. Bkly 8229	Dwelly, Elizabeth Leone 2 LS-8702 West st, O	Tracy
Dunn, Harry Adam 1 LS-838 Chestnut st, O	Oakland Oakd 2082	*Dyar, Dorothy 4 LS-2711 Regent st	Washington, D. C. Bkly 3473W
Dunn, Lemuel Jackson 4 Com-2605 Durant av	Concord Bkly 6981	Dyer, Clyde Ellsworth 11 Mec-2647 Dwight way	Soledad
Dunnagan Mervyn George 1 LS-3127 Grove st, O	Stockton Pied 8036J	Dyer, Kenneth Harold 3 Mec-2380 Telegraph av	Saratoga Bkly 9227
Dunne, Anna Chrysanthus 3 LS-1923 Greenwich st, S F	San Francisco	Dyer, Lois Katharine 3 LS-2531 Ridge rd	Anaheim Bkly 7066
Dunne, Arthur Bergin 3 LS-2522 Ridge rd	San Francisco Bkly 5950	Dyer, Verna Irene 1 LS-2435 Hilgard av	Soledad Bkly 6406
Dunne, Catherine Mary 1 LS-2714 Ridge rd	San Jose Bkly 9093	Dyett, Walter Henry 3 LS PreM-877 Twenty-seventh st, O	Pasadena
Dunne, Margaret Fitzhenry 2 LS-2547 Washington st, S F	San Francisco West 3565	Dykman, Wilhelmina Adriana 1(1) 2 LS-2524 LeConte av	San Jose Bkly 2531
Dunne, Raymond Mathew 2 LS PreL-2251 College av	Stockton Bkly 9107	Dyramid, Anthony R. 2 Mec-2226 Telegraph av	Los Angeles Bkly 372
Dunphy, Harriet Helen 1 LS-2211 Atherton st	Campbell	Dyramid, Dalibor Francis 1 Mec-2226 Telegraph av	Los Angeles Bkly 372
Dunshee, John Harvey 14 LS PreM-1640 Euclid av	Ojai Bkly 4748	*Eadie, Benita Gertrude 4 LS-2305 Bancroft way	San Diego Bkly 7461
Dunsmore, Mabel Alice 2 LS-2443 Prince st	Berkeley Bkly 1606W	Eadie, William Hunter 3 Com-2613 Durant av	San Bernardino Bkly 3699
Dunster, Frederick William 1 Chem-2305 Cedar st	Sacramento Bkly 6196	*Eager, Maybell Stone 4 LS-2533 Durant av	Fairfield Bkly 665
Dunten, Walter Charles 11 LS-Presidio, S F	San Francisco West 6174	Eames, Mary-Anne Abbe 1 LS-2731 Regent st	Chico Bkly 2075
Duperu, Mabel Mauffray 2 LS-2721 Haste st	Crockett Bkly 8800	Eardley, Bernice 1 LS-1106 Oxford st	Berkeley Bkly 6958W
Dupont, Kedma Mabel 1 LS-2670 Parker st	Stockton Bkly 309	Earle, Isham John 1(1) 2 LS-2547 Channing way	San Diego
Duque, Lorenzo Luis (1) 2 Mec-2409 Bowditch st	Los Angeles	Eastman, Ella Gladys 2 LS-2684 College av	Walnut Grove Bkly 1632J
Duque, Victor Anthony 1(1) 2 Mec-2245 Hearst av	Los Angeles Bkly 6066W	Easton, Esther Katherine 1 LS-2801 College av	Berkeley Bkly 1960W
Durgin, Laurance Ira 1 Min-2174 University av	Berkeley Bkly 3067J	Easton, Evelyn Jessie 4 LS-65 Fifth av, S F	San Francisco Pao 1025
Durkee, Andrew Franklin 12 Mec-2401 Durant av	Santa Barbara Bkly 6504	Eastwood, Blanche 3 LS-1547 Euclid av	Oxnard Bkly 6681
Durnford, A. Nelida 1 LS-823 Fifty-fifth st, O	Evanston, Wyo. Pied 5211	Eastwood, Burr, Jr. 11 LS-141 Bonita av, P	Oakland Pied 3021
Durst, Doris 2 LS-1715 Central av, A	Alameda Ala 752	*Eastwood, Marguerite Ella 4 LS-706 Mandana blvd, O	Oakland Oakd 4843
Duryea, Wanda Loana 1 LS-1904 Grant st	Oakland	Eaton, Azalea Ward 11 LS-1101 Shattuck av	Berkeley Bkly 5541
Dustin, William Alfred 1 CE-701 Post st, S F	San Francisco Frkn 6620	Eaton, Chelsea Dingle 12 LS PreM-474 Wesley av, O	Oakland Mer 115
Dutcher, Ida Elizabeth 2 LS-2410 College av	Lakeport Bkly 6656	Eaton, Hazel Agnes 2 LS-1927 University av	Watsonville Bkly 6321J
Dutton, Diana 11 LS-2433 Warring st	San Francisco Bkly 8134W	Eaton, Ida Amelia 2 LS-1815 Walnut st	Lone Pine Bkly 3062W
Dutton, Fletcher Holland 14 Com-2433 Warring st	San Rafael Bkly 8134W	Eaton, J. Lloyd 11 LS PreM-6046 Harwood av, O	Oakland Pied 4615J
Du Val, William Moylan, Jr. 1 LS-297 Lenox av, O	Oakland Oakd 6871		

- Ebaugh, Robert Morraine Coalinga
 1 Min-2527 Ridge rd Bkly 6107
 Ebe, Samuel Ray Oakland
 1 Mec-5786 Ayala st, O Pied 4249
 Ebert, Fred A Los Angeles
 4 LS-1208 St. Charles st, A Ala 576
 Ebert, Madelyne Frances Berkeley
 1 LS-2804 Telegraph av Bkly 8428
 Eby, Anna Marie Laramie, Wyo.
 *1 LS-1726 Walnut st Bkly 5488
 *Eby, Elmo Cartwright Sacramento
 4 LS-2214 Dana st
 Eccles, Emma Stoddard Logan, Utah
 3 LS-2801 Durant av Bkly 37
 Eccles, George Stoddard Logan, Utah
 (1) 3 Com-2701 Hillegas av Bkly 4782J
 Eckerson, Esther Caroline Los Angeles
 (1) 3 LS-2827 Bancroft way Bkly 1061W
 Eckley, Norman Meredith Alameda
 8 LS-2280 Haste st Bkly 2171W
 Eckstein, Mildred Bertha Oakland
 1 LS-26 Westall av, O Pied 8652W
 Eddie, Bernice Ursula San Francisco
 2 LS-1137 Hyde st, S F Pept 2442
 Edgar, Joseph Presley Sanger
 1 Agr-2411 Durant av Bkly 8071
 Edgar, Paul Wealy Pomona
 *1 Mec-2514 Dana st
 Edgerton, Roy Barclay Emmett, Idaho
 2 LS-2508 Haste st Bkly 767
 Edgerton, Russell Craig Berkeley
 2 Com-2508 Haste st Bkly 767
 Edinger, Fred Stanley Berkeley
 1 Mec-2601 Channing way Bkly 5904
 Edmonds, Marc Weston Nevada City
 1 Agr-2222 Bancroft way Bkly 6475
 Edmonds, Walter Weston Oakland
 2 LS-6182 Chabot rd, O Pied 2252
 Edmondson, Clyde Santa Barbara
 2 Com-2627 Ridge rd Bkly 2541
 Edmondson, Harold Alfred Santa Barbara
 2 Mec-2627 Ridge rd Bkly 2541
 Edmunds, Ethel Napa
 *2 LS-2500 Bancroft way Bkly 1848
 Edmunds, Jules Paul Napa
 1 LS-2500 Bancroft way Bkly 1848
 Edson, Wilna Lucie Alameda
 2 LS-1826 Alameda av, A Ala 2427W
 Edson, Phillips J Los Angeles
 4 LS PreM-2584 Ridge rd Bkly 8224W
 Edson, Winona de Clyver Berkeley
 *4s LS-2507 Vine st
 Edwards, Ambrose Frederick Oakland
 3 LS-1928 Harrison st, O Oakd 1280
 Edwards, Charles Stockton Los Angeles
 4 LS-2425 LeConte av Bkly 4834
 Edwards, Dorothy Buyl Oakland
 *1 LS-650 E Nineteenth st, O Mer 2891
 Edwards, James Wallace New York, N. Y.
 1 Chem-2680 Channing way
 Edwards, Lorena Emma Berkeley
 1 LS-68 Hillcrest rd Bkly 4942
 Edwards, Lucine Victor San Francisco
 1 LS PreL-1441 Henry st Bkly 4042J
 Edwards, Melvin Oakland
 *1s LS PreL-820 Fifty-fourth st, O Pied 260
 Edwards, Merriam Charles Napa
 *1 LS PreL-2027 Hyde st, S F Pept 5135
 Edwards, Milly Agnes Brawley
 3 LS-2721 Channing way Bkly 808
 Edwards, Paul Duncan Visalia
 4 LS-2617 Durant av Bkly 822
 Edwards, Persis Berkeley
 3 LS-2818 Telegraph av Bkly 5964
 Edwards, Samuel Harrison Oakland
 *1s Mec-5115 Shafter av, O Pied 5491J
 Edwards, T. Robert San Francisco
 *2 Chem-2656 Filbert st, S F West 5504
 Edwards, Thomas James New York, N. Y.
 2 LS-2411 Bowditch st Bkly 1465
 Edwards, Thomas Lloyd Berkeley
 *2 Com-68 Hillcrest rd Bkly 4942
 Edwards, Thomas Oliver, Jr. Berkeley
 8 Chem-1075 Mariposa av Bkly 5886
 Eells, Walter Herbert San Diego
 *2 Min-2345 College av Bkly 62
 Efstratis, Haralambos Stratis San Francisco
 *2s LS-2081 Berkeley way
 Egan, Melba Aileen Oroville
 2 LS-2417 LeConte av Bkly 5650
 Egge, Ingul Walter Nashua, Mont.
 *1 Mec-1608 Oxford st Bkly 6240J
 Eggen, Clara Olive Hemet
 4 LS-2721 Channing way Bkly 808
 Eggen, Ella Hemet
 2 LS-2721 Channing way Bkly 808
 Eggleston, Arthur Dupuy Oakland
 2 LS-5345 Manilla av, O Pied 5919
 Eggleston, William Stokes Oakland
 1 Mec-5345 Manilla av, O Pied 5919
 Ehlers, Richard Henry Berkeley
 2 LS-1615 McGee av
 Ehrenclou, Sigrid Irene Los Angeles
 3 LS-2581 Ridge rd Bkly 7086
 Ehrer, Marcel Roy San Francisco
 1 Com-286 Liberty st, S F Man 3387
 Ehresman, Francis Sparks Pomona
 *1 Com-1711 Euclid av Bkly 3378
 Eichaker, Helene Sophia San Francisco
 2 Com-2627 Ashby av Bkly 4816W
 Eichorn, Joseph Karl San Francisco
 1 Com-964 Clayton st, S F Park 5680

- Eifert, Rudolf Albert Oakland
2 LS-5710 Fleming av, O Elm 461
- Eirick, Mildred Adelaide Los Angeles
1 LS-2793 Benvenue av Bkly 5274W
- Eischen, William Montebello
4 Mec-2417 LeConte av Bkly 5650
- Elder, Pauline Berkeley
2 LS-2626 Etna st Bkly 5818J
- Eldridge, Carlton Rowell Berkeley
2(1) 2 Com-2817 Garber st Bkly 3294W
- Elftman, Archibald Robert Oakland
1 LS-1607 Eighty-third av, O
- Elftman, Herbert Oliver Oakland
1 Min-1607 Eighty-third av, O
- Elliger, Clarence Oswald Grass Valley
1 CE-2312 College av Bkly 893W
- Elliger, Selma Bertha Grass Valley
8 LS-2641 1/2 Channing way Bkly 2276J
- Ellington, Ethel Ann Coalinga
1 LS-2109 Shattuck av Bkly 9810
- Ellingwood, Dorothy Mae Berkeley
1 LS-2316 Stuart st Bkly 3599W
- Elliott, Albert Howell Oakland
21 LS PreM-2901 Telegraph av, O
Lksd 1583
- Elliott, Helen Hope Berkeley
3 LS-2550 Benvenue av Bkly 4886J
- Elliott, Margaret Maxine Berkeley
21 LS-1210 The Alameda Bkly 1687
- Elliott, Maxine Jane San Leandro
1 LS-117 Cambridge av, S L S L 235J
- Elliot, Merle Hugh Colton
1 Chem-2211 Ellsworth st Bkly 5496W
- Elliott, Raymond West Palo Alto
2(1) 4 LS-2337 Channing way Bkly 8278J
- Ellis, Arthur William Talent, Ore.
1 Com-2600 Bancroft way Bkly 1901
- Ellis, George William Oakland
21a Com-1400 Jackson st, O Lksd 213
- Ellis, Howard Coit Oakland
4 LS and 1 Juris-1014 Myrtle st, O
- Ellis, Leslie Elwood Stockton
1 Min-362 Hudson st, O
- Ellis, Marion Genevieve Oakland
1 LS-2704 Derby st Bkly 4917W
- Ellis, May Elliott Edith Los Gatos
3 LS-2732 Channing way Bkly 7026
- Ellis, Polly Outley Ceres
2 LS-2529 Dwight way Bkly 4474W
- Ellis, Sydney Boutelle Berkeley
2 Com-1214 Euclid av Bkly 3790
- Ellisberg, Sara San Francisco
3 LS-2201 Ellsworth st
- Ellison, Edward Burns Denver, Colo.
21 LS-2318 Telegraph av Bkly 5964
- Ellison, Evelyn Elizabeth Berkeley
1 LS-1645 Dwight way Bkly 4825W
- Ellison, George Russell Oakland
28 LS PreL-569 Forty-first st, O
- Ellsworth, Harriet Niles
4 Com-2226 Chapel st Bkly 879
- Ellsworth, Rodney Sydes Stockton
1 LS PreL-2172 Blake st Bkly 165
- Ellsworth, Viola Rigby, Idaho
2 LS-2611 Durant av Bkly 4325W
- *Elmore, John Whitney Santa Rosa
4 LS-1616 Allston way
- Elms, Alberta Los Angeles
4 LS-1620 Walnut st Bkly 5622J
- Elsbach, Robert Herman San Francisco
1 LS-8127 Washington st, S F
West 3683
- Elworthy, Mark Carter Concord
4 LS-2521 Hearst av Bkly 708
- Embery, Agnes Adaline Albuquerque, N. M.
21 Com-2511 Prince st Bkly 6864W
- Emerson, Helen Elizabeth Pasadena
3 LS-2509 College av Bkly 7344J
- Emerson, Leland Harris Ontario
2 LS-2187 Berkeley way Bkly 112W
- Emery, Claude Edgar Victoria, B. C.
4 LS and 1 Med-2214 Union st Bkly 2483
- Emery, Roene Eva Santa Rosa
3 LS-2330 College av Bkly 1803
- Emery, William Valentine Watsonville
4 LS-2316 Virginia st Bkly 6655J
- Emersian, Edward Fresno
2(1) 2 Agr-2635 Channing way Bkly 1895
- Emlen, Andrew Arnberg Gilroy
2 Mec-2741 Woolsey st Bkly 3826W
- Emrick, John Jacob Alledo, Ill.
(1) 2 Com-1334 Arch st Bkly 3195J
- Enderlin, Albert F. San Francisco
21 Com-1171 Goettingen st, S F
Rand 1510
- Eng, Lillian Watsonville
21a LS-1917A Francisco st
- Engelbreetsen, Alice Marie Eureka
3 LS-608 Twentieth st, O Oakd 6953
- Engelbreetsen, Karl Leslie San Diego
2 Agr-2345 College av Bkly 62
- Engel, Cora Mable Pasadena
1 LS-2201 Ellsworth st Bkly 6037W
- Engelberg, Vera San Francisco
2 LS-136 Clipper st, S F Valen 3566
- Engelman, Uriah Loi San Francisco
4 LS-2419 Durant av
- England, Thelma Alice San Francisco
21 LS-299 Douglass st, S F Park 8096
- Engle, Gertrude Elizabeth Ashland, Ore.
4 LS-2327 Bancroft way Bkly 1061W
- English, Agnes Marion Greeley, Colo.
(1) 4 LS-1715 LeRoy av Bkly 2513
- Engs, Edward Webb, Jr. Oakland
1 LS-2330 Telegraph av Bkly 9227

Undergraduate Students

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Engs, William	Oakland	Evans, Joseph Ratcliff	Sierra Madre
1 LS-Hotel Oakland, O		4 LS-2508 Haste st	Bkly 767
Enloe, Newton Thomas, Jr.	Chico	Evans, Margaret Carlisle	Helena, Mont.
1 LS PreM-2646 Dwight way	Bkly 4104	4 LS-2236 Durant av	Bkly 7965
Ennis, Editha Elizabeth	Sioux City, Iowa	Evans, Robert Montgomery	Long Beach
2 LS-2542 Durant av	Bkly 1364	4 LS-2701 Hearst av	Bkly 2421
Enos, Emma Clarita	Elk Grove	Evarts, Blanchard Rolland	Long Beach
4 LS-2428 Channing way	Bkly 6408	8 Agr-University Farm, Davis	
Entriken, Ralph Emerson	Porterville	Eveleth, William Tappan	Berkeley
1 Mec-178 Perry st, O		1 Chem-2620 Stuart st	
Epley, Dorothea Donna	San Francisco	Everding, Lois Electra	Arcata
2 LS-2782 Channing way	Bkly 7026	1 LS-2635 Hillegass av	Bkly 2491J
Epling, Carl Clawson	Los Angeles	Everett, Dorothy Churchill	Sacramento
1(1) 2 Agr-2312 College av	Bkly 893W	2 LS-2417 LeConte av	Bkly 5650
Epstein, Norman Niesen	Napa	Everett, Edward Willard	Nevada City
2 Med-561 Waller st, S F	Park 1285	4 LS-2632 Regent st	Bkly 6403W
Erb, Blanche Marguerite	San Francisco	Everett, Francis Gray Highland Park, Ill.	
1s LS-2212A Union st	Bkly 7611	(1) 3 LS-1815 Highland pl	Bkly 1682
Erb, Charles Freeman, Jr.	Los Angeles	*Everett, Henry Parke	Nevada City
1 LS-2502 Dana st	Bkly 423J	4 Agr-2632 Regent st	Bkly 6403W
*Erickson, Adeline Lillian	Turlock	Everett, Louise	Los Angeles
4 LS-2688 Woolsey st	Bkly 1780J	1(1) 3 LS-2627 Hearst av	Bkly 3229
Erickson, Erland Otto	Oakland	Everett, Margaret Elizabeth	Nevada City
1 LS PreL-1815 Highland pl	Bkly 1682	2 LS-2632 Regent st	Bkly 6403W
Erickson, Fridtjof Carl	Oakland	Everhardy, Elizabeth	Los Angeles
4 LS-1815 Highland pl	Bkly 1682	1 LS-1535 Euclid av	Bkly 4554
Erickson, James Lester	Pasadena	Everline, Florence Miriam	Los Angeles
2 LS PreA-2614 Dwight way	Bkly 5988	2 LS-2502 Hilgard av	Bkly 7203J
Ericson, Florence Elizabeth Genevieve	Fresno	*Evers, Sepha Pischel	San Francisco
(1) 2 LS-2240 Atherton st		4 LS-1817 California st, S F	Fkin 913
Ericsson, Olga Charlotta	San Francisco	Eves, Washington York	Oakland
1 Com-347 Fifth av, S F		1 LS-2214 Dana st	Bkly 1347
Eris, Louis	Oakland	Evey, Byron Douglas	Lakeport
1 Com-752 Twenty-ninth st, O		12 LS-478 Nineteenth st, O	Oakd 287
Errington, Clela Margaret	Piedmont	Ewer, John Norton	Oakland
1 LS-2739 Bancroft way	Bkly 204	1 LS PreM-176 Santa Rosa av, O	Pied 77
Egen, Anne Sabine	Los Angeles	Ewert, Lela	Woodland
(1) 2 LS-2318 Telegraph av	Bkly 5964	4 LS-2429 Channing way	Bkly 4648
Eskil, Rolf M.	Big Creek	Ewing, Eloise Myrtle	Oakland
1 LS PreA-2215 Atherton st	Bkly 2744	1 LS-591 Sixty-third st, O	Pied 7259W
Estabrook, Mildred Wynta	Pacific Grove	Ewing, Gladys	Buhl, Idaho
8 LS-2500 Durant av	Bkly 9146J	1 LS-2616 Etna st	Bkly 1059
Estill, William Cole	Clovis	Ewing, Helen M	Los Angeles
1 Agr-1925 Home st	Bkly 2434W	2 LS-1715 LeRoy av	Bkly 2351
Etzenhauser, Edith Agusta	Visalia	Eymann, Vera Lucile	Reedley
3 LS-2525 Dwight way	Bkly 7693W	1 LS-2520 Durant av	
Eugenio, Vincente Rodriguez	Philippine Islands	Eyre, Donald Manuel	Berkeley
1 Mec-2207 Shattuck av		12 LS PreL-1511 Grant st	Bkly 8807J
Euler, Charlotte Alice	San Francisco	Eyre, Eileen Gray	Berkeley
3 LS-1076 Page st, S F	Park 4260	1 LS-2511 Derby st	Bkly 7839J
Euler, Grace	San Francisco	Eyre, Gerald Dale	Berkeley
1 LS-1076 Page st, S F	Park 4260	1 LS-1511 Grant st	Bkly 8807J
Eva, James Henry	Oakland	Fabrique, Marian Laura	Santa Monica
2 LS PreL-402 Lee st, O	Oakd 4697	(1) 2 LS-2627 Hearst av	Bkly 4009

- Fagan, Robert Haldermann . Los Angeles
 2(1) 3 LS-2620 Bancroft way Bkly 8870
- Fainer, Joseph Lionel Chicago, Ill.
 1s LS and 1 Juris-2248 Telegraph av Bkly 9011
- Fairbanks, Hilda Shaw Fresno
 4 LS-1825 Spruce Bkly 999W
- Fairchild, Clinton George Oakland
 1 Min-406 Forty-third st, O Pied 5408W
- Fairchild, Llewellyn Godfrey Oakland
 1 Mec-408 Forty-third st, O Pied 5408W
- Fairchilda, Floyd Charles Lodi
 12 LS PreM-2527 Ridge rd Bkly 5098
- Fairfax, Frederick Henry San Francisco
 1s Mec-2224 Dana st Bkly 4216J
- Fairfield, John Edmund Palo Alto
 2(1) 3 Com-2521 Hearst av Bkly 708
- Falck, Helen Beatrice Chico
 1 LS-2646 Telegraph av
- Falk, Andrae Hall Eureka
 1 LS-2417 LeConte av Bkly 5650
- Falk, Drury N. Eureka
 1 LS-1726 Euclid av Bkly 6706
- Fallgren, Violet Esther Kingsburg
 2 LS-1587 Arch st Bkly 9852W
- Falvey, Eileen San Francisco
 2 LS-124 Clayton st, S F Pac 786
- Fancher, Bessie May Modesto
 8 LS PreM-519 Forest st, O Pied 8816
- Fancher, Flo Belle Modesto
 2 LS-519 Forest st, O Pied 8816
- Fankhauser, Norma Sacramento
 3 LS-3009 Dana st
- Farber, William Polk Beverly Hills
 2(1) 3 LS-2605 Etna st Bkly 4563J
- Farcon, Alfonso Padua Philippines
 1 LS-1822 University av
- Farrington, Ruth Ethel Sutter
 1 LS-2629 Haste st Bkly 3287
- Farley, Bess Lou Dallas, Texas
 1 LS-1609 Twenty-eighth av, O Frvl 1121
- Farley, Marie A. Eureka
 3 LS-2821 Bancroft way Bkly 1765
- Farmer, Frances Rialto
 3 LS-2318 Telegraph av Bkly 5964
- Farnsworth, Elizabeth Minnie San Diego
 1s LS-2430 Hilgard st Bkly 2018W
- Farnum, Esther James Los Angeles
 3 LS-2627 Hearst av Bkly 4009
- Farnworth, Sadie Oakland
 3 LS-1303 Seventy-eighth av, O Elm 1147
- Farr, Edward Hern Fillmore
 1 LS PreL-2501 Russell st Bkly 4072J
- Farrel, Helen Gertrude San Francisco
 1 LS-2021 California st, S F Flmr 4482
- Farrin, Grace Madeline Berkeley
 1 LS-1941 Bancroft way Bkly 7772J
- Farrington, Bruce Barton Alameda
 4 Chem-1117 Morton st, A Ala 1378
- Farrington, Marion Fields Alameda
 3 LS-1117 Morton st, A Ala 1378
- Farwell, Melba Josephine San Francisco
 3 LS-1270 Eighth av, S F Snt 805
- Farwell, Raymond Forrest Seattle, Wn.
 4 LS-2233 Carlton st Bkly 8438W
- Fassett, Charles Wilson Oakland
 4 CE-927 Adeline st, O Oakd 5275
- Fassett, Leona May Oakland
 3 LS-927 Adeline st, O Oakd 5275
- Faught, Neva Katheryn Modesto
 3 LS-2519 Hillegass av Bkly 477
- Faulkner, Annette Adelaide Alameda
 1 LS-1816 San Jose av, A Ala 2282J
- Faulkner, James Lawrence Stockton
 2 LS PreM-2211 Ellsworth st Bkly 5496W
- Faulkner, William Bernard, Jr. Stockton
 4 LS and 1 Med-1554 Haight st, S F Park 5704
- Faverman, Anita Edith San Francisco
 2 LS PreM-177 Highland av, S F Man 7652
- Fawcett, Marguerite Comfort Spokane, Wn.
 1 LS-2400 Dwight way Bkly 3353J
- Fawcett, Valentine Olivia Spokane, Wn.
 2 LS-2400 Dwight way Bkly 3353J
- Fealy, J. Leo Oakland
 1 LS PreL-220 Athol av, O Mer 3710
- Feddersohn, Peter Longstaff Puente
 3 Agr-2635 Channing way Bkly 1895
- Feder, Jack Mott San Francisco
 1 Min-1809 Euclid av Bkly 1615
- Federspiel, Dorothea Alameda
 1 LS-2070 San Jose av, A Ala 2778J
- Fee, Charles Joseph San Francisco
 12 CE-961 Pine st, S F Frkn 3848
- Fee, Doris Berkeley
 1 LS-2632 Benvenue av Bkly 4895W
- Fee, Helen Adele Berkeley
 (1) 2 LS-2632 Benvenue av Bkly 4895W
- Feigenbaum, B. Joseph San Francisco
 4 LS-2711 Pacific av, S F West 1036
- Feldman, Elise Jean Portland, Ore.
 1 LS-2700 Channing way Bkly 5876
- Felix, Max Pasadena
 4 LS and 1 Juris-2318 Telegraph av Bkly 5964
- Fellers, Raymond Scott Oakland
 2 Chem-1640 Euclid av
- Fellows, Annie Charlotte Mt. Lowe
 2(1) 4 LS-2420 S Atherton st Bkly 7290J
- Fellows, Eleanor Marie Mt. Lowe
 1 LS-2420 S Atherton st Bkly 7290J
- Fellows, Raylene Pomona
 (1) 2 LS-2400 Piedmont av Bkly 5224

- Fendt, Alma Edna Colusa
4 LS-2519 Hillegass av Bkly 477
- Fendt, Ernest Albert Colusa
1 LS-2406 Dana st Bkly 7713
- Fenger, Austin B Oakland
12 LS PreL-2401 Durant av Bkly 6504
- Fennell, Edna Anne San Francisco
1 LS-1133 Dolores st, S F Man 8150
- Fenner, Isabel Sara Berkeley
1 LS-2140 Derby st
- Fenzl, Emma Nell Berkeley
(1) 3 LS-5555 Thomas st, O Pied 4194J
- Ferguson, Fergus, Jr. Salt Lake City, Utah
1 Com-2521 Hearst av Bkly 708
- Ferguson, Lillian Beatrix Los Angeles
1(1) 2 LS-2620 Benvenue av Bkly 7380W
- Ferguson, Lyle Walter Niland
4 Agr-University Farm, Davis
- Ferguson, Muriel Ruth Oakland
1 LS-961 Forty-fourth st, O Pied 4736J
- Ferrasci, Mary Claire Richmond
1 LS-2525 Durant av Bkly 1973
- Ferri, Jack San Francisco
2 LS-2438 Polk st, S F Sept 1822
- Ferrill, John Harvey Albion
4 Com-2410 Bancroft way Bkly 4443W
- Ferris, Elizabeth Blossom Freeman
Sierra Madre
8 LS-2534 Bancroft way Bkly 6325J
- Ferro, Orestes M. Lima, Peru
1a Com-2431 Dana st Bkly 547W
- Ferry, Mabel Farwell San Diego
(1) 2 LS-2400 Piedmont av Bkly 5224
- Ferry, Sanford Truman Salt Lake City, Utah
1 LS-315 Lafayette apts Bkly 4026
- Ferry, William Montague Salt Lake City, Utah
1 LS-315 Lafayette apts Bkly 4026
- Fey, Howard Miller Santa Ana
1 Mec-2828 Carlton st Bkly 8246J
- Fialon, Henriette Marie Chicago, Ill.
2 LS-2315 Dwight way Bkly 4026
- Fiat, Nathan Ideal Valparaiso, Ind.
3 Agr-2240 Piedmont av Bkly 1226
- Fickle, Thomas Lincoln San Diego
1(1) 3 LS-2134 Oxford st Bkly 409
- Field, Clara Anna Emmett, Idaho
2 LS-1700 Euclid av Bkly 6789
- Field, Orin Benjamin Los Angeles
2 CE-2241 Durant av Bkly 2978J
- Field, Wilson Julian Salt Lake City, Utah
2 LS-2200 Piedmont av Bkly 6601
- Filler, Gertrude Elizabeth Los Angeles
1 LS-2525 Durant av Bkly 2033W
- Fillinger, Raymond Christopher Santa Ana
2 Mec-1715 Bushnell pl Bkly 7241W
- Finch, Ethel Ellen Willows
1 LS-2534 Hillegass av Bkly 5776W
- Fink, Alice Josephine Berkeley
1 LS-1724 Arch st Bkly 1443
- Fink, Harriet Klamath Falls, Ore.
14 LS-1358B Scenic av Bkly 2099W
- Finkbine, Eleanor Atlantic, Iowa
3 LS-2400 Piedmont av Bkly 5224
- Finkbine, Ralph Le Roy Atlantic, Iowa
3 LS-2521 Hearst av Bkly 708
- Finley, Anna Elizabeth Maricopa
3 LS-2522 Dwight way Bkly 6646J
- Finnell, Simpson, Jr. Napa
3 LS-2251 College av Bkly 9107
- Finneran, Elizabeth Josephyne Ashland, Ore.
1 LS-2619 Haste st
Finney, Alice Elizabeth Lincoln
(1) 2 LS-2341 Carlton st Bkly 9006W
- Finney, Charles Edward Concord
1 LS PreL-2550 Haste st Bkly 495W
- Finney, James Bedford Long Beach
2 Com-2438 Durant av
- Firth, Helen Marion Phoenix, Ariz.
1 LS-3035 Dell View av, O Frvl 3070
- *Fischer, Marie Carolyn Oakland
4 LS-Treheaven apts Bkly 5564J
- Fish, Harold Winslow Sacramento
1 LS-2214 Union st Bkly 2483
- Fish, James III Valdez, Alaska
3 LS PreL-2744 Elmwood av Bkly 8408J
- Fish, Percy Harbert Escondido
2 Com-920 Arlington rd Bkly 4834
- Fishburn, Charles Hall San Diego
3 LS-2521 Channing way Bkly 9806
- Fishburn, Jeanette Los Angeles
2 LS-2721 Haste st Bkly 8800
- Fisher, Anna Bathsheba Salt Lake City, Utah
2 LS PreM-2418 College av Bkly 4440
- Fisher, Buford Alameda
14 CE-1129 Park st, A
- Fisher, Cecil Ezra Irwin
1 LS-2227 Carlton st
- Fisher, Dorothy Mae Red Bluff
2 LS-2709 Channing way Bkly 8538
- Fisher, Edna Marie Attica, Ind.
4 LS-2410 Fulton st
- Fisher, Emerson W Fresno
2 LS-2816 Bowditch st Bkly 1416
- Fisher, Ethel Aubrey Los Angeles
1a LS-2214 Dana st Bkly 1160
- Fisher, Leland Stanford Vacaville
1 LS PreL-Sequoia apts Bkly 7239W
- Fisher, Natta Hahn Berkeley
1a LS- U C Cottage No. 3 Bkly 3489J
- Fisher, Robert Charles Fortuna
1 Com-2248 Fulton st
- Fisher, Vining Taylor Oroville
3 LS PreL-2510 LeConte av Bkly 937W

- Fisk, Clarke Chester Helena, Mont.
 '1 Mec-2415 Fulton st Bkly 7536
- Fisk, Katherine Louise San Diego
 '2(1) 3 LS-2417 LeConte av Bkly 5650
- Fiske, Helen Berkeley
 '2s LS-2601 Benvenue av Bkly 5557
- Fitch, Constance Mae Claremont, N. H.
 1 LS-2704 Virginia st Bkly 4695W
- Fitinghoff, Laura Zora San Jose
 4 LS-2141 Berkeley way Bkly 1596
- Fitz, Lennice Marie Madeline
 '1s LS-2801 Fulton st Bkly 4347W
- Fitz Gerald, Elizabeth Vaughan
 Tonopah, Nev.
 '2 Com-2315 Dwight way Bkly 4026
- Fitzgerald, Gerald John Grass Valley
 4 LS PreA-1164 Spruce st Bkly 661W
- Fitzgerald, Geraldine San Luis Obispo
 4 LS-2330 College av Bkly 1803
- Fitzgerald, Kathleen Mary San Francisco
 2 LS-48 Baker st, S F Mrkt 8712
- Fjtzgerald, William Theodore
 San Francisco
 1s Agr-2402 Dana st Bkly 3735W
- Fitz Gibbon, Edith Edwina Oakland
 1 LS-573 Twenty-fifth st, O Lksd 2415
- Fitzpatrick, Muriel Josephine Escalon
 1 LS-891 Thirty-seventh st, O Pied 573W
- Fix, Iona Mae Ortonville, Minn.
 1 LS-2714 Garber st
- Flanders, Raymond James Chula Vista
 1 LS-2416 Durant av
- Flanders, Stanley Ellsworth Chula Vista
 2 LS PreM-2416 Durant av
- Flanner, June Hildegard Indianapolis, Ind.
 3 LS-2417 LeConte av Bkly 5650
- Flanner, Katherine Livingston Blackwell, Wis.
 '1 LS-2214 Dana st Bkly 1160
- Fleischman, Carrie Maxine Bakersfield
 1 LS-2542 Durant av Bkly 1364
- Fleming, Wesley Calvin Orange Cove
 3 Agr-2701 Hearst av Bkly 2421
- Fletcher, Carleton Richfield, Idaho
 '2 CE-2401 Durant av Bkly 6504
- Fletcher, Charles Dannenbaum San Francisco
 1 LS PreM-3993 Washington st, S F Pac 1740
- Fletcher, Russell Carson City, Nev.
 2 LS PreM-2529 Hearst av Bkly 40
- Flewelling, Lester Morgan Reedley
 1 Chem-3065 Pine st, S F Park 4447
- Flick, John Alger San Diego
 (1) 2 Com-2022 Los Angeles av
- Fliege, Helen Marie Berkeley
 '1(1) 2 LS-1728 Sonoma av Bkly 9351
- Fliege, Julius Stewart Berkeley
 4 LS and 1 Juris-2717 Haste st Bkly 586
- Flinn, Edwin A. Berkeley
 '2 Com-1799 University av Bkly 2174
- Flint, Carleton Edward Sacramento
 8 Chem-2529 Hearst av Bkly 40
- Flock, Alfred Louis Sacramento
 '1 LS-2332 College av Bkly 1134
- Flodberg, Fred William Lakeport
 '4 LS-1640 Euclid av Bkly 7057
- Flood, Ormond Kenneth San Francisco
 3 Min-Fairmont Hotel, S F Krny 3900
- Flores, Evelyn Isabel San Lorenzo
 1 LS-178 Panoramic way, San Lorenzo
- Florida, Edna May Corvallis, Ore.
 '2(1) 4 LS-2320 Bancroft way
- Florida, John Freeborn Berkeley
 4 Com-2625 Hearst av Bkly 9535
- Fly, Marion San Francisco
 4 LS-2325 Dana st Bkly 8383W
- Flynn, Harry William San Fernando
 '1 LS-2332 College av
- Flynn, John Mervin San Fernando
 3 LS-2332 College av Bkly 1134
- Flynn, Southard Tolchard Berkeley
 2 Med-1550 Oxford st Bkly 2955
- Fock, Jusutus Daniel Batavia, Java
 3 Chem-2530 Hilgard av Bkly 7777J
- Foges, Lucie Margaret Oakland
 1 LS-3601 Peralta av, O Frvl 1676
- Fogle, Elmer Paulson Oakland
 '2(1) 3 LS and 1 Juris-1473 Thirty-fourth av, O
- Foler, Bertha Vivian Long Beach
 4 LS and 1 Med-2229 Chapel st Bkly 1642
- Foley, Agnes Lorraine Woodland
 '1 LS-2828 Cherry st Bkly 8759J
- Follett, Gerald Allison Richmond
 '1 Min-501 Bissel av, R
- Follett, Wilber Irving Oakland
 1 LS PreL-3621 Broadway, O Pied 6894J
- Follett, Zula Myrtle Tuolumne
 4 LS-2116 Bancroft way Bkly 8859W
- Follis, Ralph Gwin San Francisco
 1 Min-2634 Bancroft way Bkly 1276
- Fonacier, Tomas Sugitan Laoag, Ilocos Norte, P. I.
 '1 LS-124 Turk st, S F
- Fong, Wah Bing San Francisco
 1 Mec-719 Pacific st, S F China 459
- Fong, Wong Yu Hollister
 1 LS PreM-2600 Hilgard av Bkly 5747

- Foo, Meow Chin Shanghai, China
3 Com-2800 Etna st Bkly 7593
- Footo, Adelaide Louise Corte Madera
1 LS-2629 Haste st Bkly 3287
- Footo, Francis Perley Pasadena
1 LS-2228 Dana st Bkly 1058
- Footo, Fred Jennings Oakland
1 Mec-816 Fifty-sixth st, O Pied 4378J
- Footo, Frederick Sanford Escondido
13 LS PreM-1711 Euclid av Bkly 3378
- Forbes, Ada Carolyn San Luis Obispo
3 LS-2526 Hilgard av Bkly 1441
- Forbes, Martha Hellen Hood River, Ore.
1 LS-2645 Benvenue av Bkly 6291J
- Forbush, Alonzo Bascomb Santa Barbara
4 LS-2523b Virginia st
- Ford, Cyril Bart Casper, Wyo.
1s Min-2214 Union st Bkly 2483
- Ford, Dorothy Willard Hollywood
1 LS-2627 Hearst av Bkly 4009
- Ford, Geoffrey Waterlow San Francisco
13 Com-2521 Hearst av Bkly 708
- Ford, Grace Wentworth Mill Valley
2 LS-2421 LeConte av Bkly 3062
- Ford, Malcolm Webster Camp Travis, Tex.
1 CE-2304 Telegraph av Bkly 8428
- Ford, Norman Waterlow San Francisco
3 Agr-2521 Hearst av Bkly 708
- Ford, Tirey L., Jr. San Francisco
13 LS-2330 Telegraph av Bkly 9227
- Ford, Vivian B. San Francisco
2 LS-2709 Channing way Bkly 8528
- Ford, Wallace Love Bishop
1 Agr-1711 Euclid av Bkly 3378
- Foree, Helen Bernice San Luis Obispo
1 LS-2220 Union st Bkly 8469W
- Foreman, Helen Elizabeth Pueblo, Colo.
1 LS-4510 Thompson st, O Berkeley
2 LS-2208 Derby st Bkly 6416J
- Forgy, Fred Santa Ana
3 LS and 1 Juris-2647 Durant av Bkly 102
- Forsington, Edward Charles Paso Robles
1 Mec-2404 Bancroft way Bkly 6428
- Forkner, Claude Ellis Stockton
2 LS PreM-2222 Chapel st Bkly 4371
- Forman, William Joel Berkeley
2 LS PreL-2200 Piedmont av Bkly 6601
- Forsburg, Frank Eugene Berkeley
1 Mec-1794 Sonoma av Bkly 8670
- Forsey, Harold Warren Fresno
4 Agr-2607 Hearst av Bkly 5913
- Foraman, Hugh Kenneth Oakland
1 LS PreL-6457 Regent st, O
Foraman, Vivian Marie Oakland
1 LS-6457 Regent st, O
Forsterer, Harold Botho Oakland
3 LS-2647 Durant av Bkly 102
- Forsyth, Evelyn Loretta Boulder Creek
4 LS-2620 Benvenue av Bkly 5511J
- *Forsyth, Margaret Santa Rosa
4 LS-2721 Haste st Bkly 8800
- Foraythe, Edith May Boulder, Colo.
(1) 2 LS-1915 University av Bkly 6019J
- Fort, Frances Ruth Los Angeles
2 Com-2627 Hearst av Bkly 4009
- Fortson, William Stokley San Bernardino
4 LS PreL-2507 Channing way Bkly 3359W
- Fortune, Gertrude Edwina Los Angeles
1s LS-621 Lincoln av, A
- Forve, Edwin Victor Los Angeles
13 LS PreL-1815 Highland pl Bkly 1682
- Foss, Edward Lyle San Leandro
1 Com-852 E Fourteenth st, S F
- Foster, Albert Douglas Los Angeles
2 CE-Oxford apts Bkly 6263W
- Foster, Dorothy Ellen Hamakupoko, Maui, T. H.
1 LS-2335 Warring st Bkly 6744
- Foster, Emma Viola Pasadena
4 LS-2573 Carlton st Bkly 3948J
- Foster, Gladys Macdonald Oakland
4 LS-2011 Indian Rock path Bkly 3248W
- Foster, Goodwin S Berkeley
1s Agr-2011 Indian Rock path Bkly 3248W
- Foster, Leslie B. Berkeley
2 Mec-2011 Indian Rock path Bkly 3248W
- Foster, Myrle Marie East Auburn
1 LS-1551 Marin av Bkly 8430J
- Foster, Reginald E. Sacramento
1 LS-2431 Dana st Bkly 547W
- Fourcade, Eileen S. A. Hollister
2 LS-2309 1/2 Haste st Bkly 3398W
- Fouts, Lura Alyce Medford, Ore.
2 LS-2400 Bancroft way Bkly 6488J
- Fowler, Alice Marie Los Angeles
14 LS-2633 Etna st Bkly 4066
- Fowler, Donald Cartwright Lincoln
3 LS PreM-1050 Fifty-seventh st, O Pied 6779W
- Fowler, Kathryn Brandon Ventura
1 Com-2435 Piedmont av Bkly 5452J
- Fowler, Leroy Atsett Bozeman, Mont.
4 Com-2614 Dwight way Bkly 5988
- Fox, James Peyton Los Olivos
1 Min-3372 Piedmont av Pied 4097W
- Fox, Kathryn Ann Oakland
12 LS-371 Van Buren av, O Oakd 7732
- Fox, Myer Samuel Los Angeles
3 Com-2208 Ellsworth st Bkly 7912J
- Fox, Ray Glenn
4 LS-2243 Virginia st Bkly 7580W

- Fox, Reuben Millard Ogden, Utah
1 Com-2647 Durant av Bkly 102
- Frahm, Dorothea Wilhelmina San Francisco
1 LS-16 Delmar st, S F
- Frasley, Charles Floyd. San Bernardino
1 LS-2174 University av Bkly 1037
- Frame, Gladys Eleanor Oakland
3 Com-4525 Shafter way, O Pied 1346W
- Frame, Mary Era Coalinga
1(1) 3 LS-2169 Forty-eighth av, O
Oakd 2879J
- Francis, Alma Tadema San Francisco
1 Com-803 Douglas st, S F Valen 418
- Francis, George Berkeley
1 LS PreL-2926 Benvenue av
Bkly 8612W
- Francis, Lillias Dorothea Berkeley
(1) 4 LS-1701 Euclid av Bkly 7844W
- Francis, Loie Ferndale
2 LS-2721 Haste st Bkly 8800
- Francis, Walter Leo Sacramento
1s Com-2332 College av Bkly 1134
- Franciscovich, Elizabeth Catherine
1 LS-2627 Hearst av Astoria, Ore.
Bkly 4009
- Franciscovich, Mary Agatha Astoria, Ore.
1 LS-2627 Hearst av Bkly 4009
- Frandsen, Marten Lent Oakland
3 Com-616 Grand av, O Lksd 6158
- Frandy, Azalia Elizabeth Grass Valley
1 LS-2303 Hearst av Bkly 1196
- Frankenan, Dorothy San Francisco
1 LS-3152 Washington st, S F
West 3588
- Frankland, Katherine Sherman Berkeley
1 LS-1199 Spruce st Bkly 8651J
- Franklin, Dorothy Miriam Tucson, Ariz.
(1) 3 LS PreM-2330 College av
Bkly 1803
- Franklin, Eulah Beatrice Eldon, Mo.
4 LS-Berkeley Inn Bkly 6870
- Franklin, Howard Wilbur Los Angeles
3s LS-2646 Dwight way Bkly 4104
- Franklin, Marjorie Daw Tucson, Ariz.
2 LS-2624 Virginia st Bkly 3663
- Franklin, Sidney San Francisco
2 LS PreL-2775 Lombard st, S F
Flmr 4668
- Franks, Estelle Floy Los Angeles
4 LS-1621 Scenic av Bkly 5102
- Frary, Zella Samson Corning
1 LS-2380 College av Bkly 1803
- Fraser, Annie Nills Berkeley
4s LS-2500 Durant av Bkly 9342J
- Fraser, Harold Eugene Oakland
4 LS PreM-2634 Bancroft way
Bkly 1276
- Fraser, Robert Floyd Denair
2 LS-1734 Walnut st
- Fraser, Sydney Edison Berkeley
4 LS-2725 Forest av Bkly 4187W
- Frater, Lillian Alice San Francisco
2 LS-2535 Piedmont av Bkly 4099
- Fratris, Kenneth Elbridge Lompoe
2 LS PreA-2606 Bancroft way
Bkly 2617
- Frawley, Frank Edward Waynoka, Okla.
1 LS PreL-2610 Lake st, S F Pac 9124
- Frazier, Nellie Margaret Berkeley
3 LS-2221 Roosevelt av
- Frazier, William Holl Berkeley
1 Agr-1615 Posen av Bkly 8941W
- Frederick Carroll May Ripon
1 LS-2703 Forest av Bkly 3700
- Fredericks, Doris M. Los Angeles
3 LS-2519 Ridge rd Bkly 7614
- Fredley, Lewis Jay Los Angeles
4 LS-2412 Piedmont av
- Freed, Bayard Alexander Venice
3 Mec-2616 Virginia st Bkly 6716
- Freed, Russell De Long Venice
1 Mec-2509 Hearst st
- Freeman, Anne Cecelia Berkeley
1 LS-2412 Grove st Bkly 2538
- Freeman, Beatrice Genevieve Douglas, Wyo.
1 LS-2226 Chapel st Bkly 5043J
- Freeman, Edwin Allan San Francisco
(1) 2 LS-2218 Dana st
- Freeman, Mildred Evangeline Boise, Ida.
1 LS-2412 Grove st Bkly 2538
- Freeman, Patrick Joseph Berkeley
1 Agr-2412 Grove st Bkly 2538
- Freericks, Charles Joseph San Francisco
1 Com-2247 Bancroft way Bkly 8873
- Freiermuth, Vincent John Watsonville
2 Mec-2528 Ridge rd Bkly 3500
- Freitas, May Margaret San Francisco
4 LS-451 Ellis st, S F Frkn 8787
- Freitas, William Caton Oakland
1 LS-1071 Forty-seventh st, O
Pied 8082W
- Frellson, Ernest Merville Healdsburg
4 LS-2412 Piedmont av Bkly 5098
- French, Arthur Henry Berkeley
3 Chem-2614 Benvenue av Bkly 5358W
- French, Delavan Emerson Oakland
1 Agr-1518 Fourth av, O Mer 1360
- French, Edward Dawson Colorado Springs, Colo.
1(1) 2 Min-2427 Durant av
- French, Howard Davies Davis
1s Agr-1415 Grove st Bkly 5620
- French, Lucy Eleanor Berkeley
1 LS-2236 Summer st Bkly 943
- French, Mae Ida Los Angeles
1 LS-2627 Hearst av Bkly 4009
- French, Margaret Loretta Berkeley
3s LS-938 San Benito rd Bkly 2453J

- French, Mary Glover Chicago, Ill.
(1) 8 LS-2710 Channing way Bkly 9520
- French, Miriam Wilson Chicago, Ill.
(1) 4 LS-2710 Channing way Bkly 9520
- French, William Oscar Modesto
4 LS-1518 Fourth av, O Mer 1860
- Frendenthal, Leslie Oliver Los Gatos
2 LS PreM-2488 Durant av Bkly 8757W
- Frey, Russell Gregory Tucson, Ariz.
2(1) 8 LS PreM-2117 Center st
- Freyer, Mary Ellen Pasadena
3 LS PreM-2415 Durant av Bkly 7429
- Fridell, Ruth Margaret Selma
(1) 8 LS PreM-1725 Carlton st
Bkly 6298W
- Friedenthal, Adolph Louis Berkeley
4 Chem-2325 Dana st Bkly 8883W
- Friedlander, Joseph, Jr. San Francisco
1 Agr-2040 Gough st, S F Fkin 2418
- Friedman, Cyrus Louis Berkeley
1 LS-1919 Grove st Bkly 7608W
- Friedman, Mindella Harriet Berkeley
4 Com-1919 Grove st Bkly 7608W
- Friedstrom, Carl Richard Kingsburg
1s LS-2001 Allston way Bkly 6710
- Friend, Cecil Claude Lemoore
21 CE-1224 S Atherton st
- Friend, Louis Santa Monica
2 Mec-2418 Dana st Bkly 8814W
- Frincke, Margaret Ellen Los Angeles
21 LS-2830 Regent st
- Frincke, Milton Hotopp Los Angeles
1 CE-2830 Regent st Bkly 6578W
- Frisbee, William Dwight San Francisco
21 LS-1855 Masonic av, S F Park 8564
- Frisbie, Elizabeth Caroline Los Angeles
1 LS-1509 Arch st Bkly 8286J
- Frisbie, Miriam Rea Los Angeles
(1) 8 LS-1509 Arch st Bkly 8286J
- Frisbie, Ruth Duncan Los Angeles
1 LS-1509 Arch st Bkly 8286J
- Fritz, Dorothy Margaret Ripon
22 LS-2112 Addison st
- Fromming, Ruth Berkeley
23 LS-2715 Channing way Bkly 7780J
- Fromer, Katherine Gertrude Pemberton, N. J.
21 Com-2109 Shattuck av
- Frost, Blanche Howes Piedmont
1 LS-831 Oakland av, P Pied 7201 W
- Frost, Cyril Charles San Jose
(1) 2 LS-2521 Channing way Bkly 9806
- Frost, Donald Asbury Willits
21 LS-2622 Haste st
- *Frost, Merle Arthur San Diego
(1) 4 LS-2345 College av Bkly 62
- Frost, William Waterman San Diego
(1) 4 LS-2345 College av Bkly 62
- Frug, James Redlands
2 LS PreM-601 Twenty-fifth st, O
Oakd 4188
- Fruit, Maurice Berkeley
2 LS PreM-2218 Union st Bkly 474J
- Fruit, Ray W. Boise, Idaho
21 LS-2240 Telegraph av
- Frustuck, Elsie Louise Fairfax
1 LS PreL-2627 Hearst av Bkly 4009
- Fry, Hazel Pearl Klamath Falls, Ore.
3 LS-2519 Hillgess av Bkly 477
- Fry, Speed Smith Los Angeles
2 LS PreL-2425 LeConte av Bkly 4834
- Frye, Alice Myrtis Hollywood
8 LS-2525 College av Bkly 9572W
- Frye, Gladys Wilhelmina Sutter
1 LS-2531 Channing way
- Fryer, Ottila Dorothy Los Angeles
21 LS-2632 Durant av Bkly 5137W
- Fuendeling, Mervyn Julius San Francisco
1 LS PreM-536 Fifth av, S F Pac 1521
- Fuentes, Fernando S. Pontevedra, P. I.
4 LS-Box 38 Bkly 2114
- Fuesale, Charles Kenneth Pasadena
21s LS-2315 Dwight way Bkly 4026
- Fukai, Sadasuke San Francisco
4 Mec-2527 Telegraph av Bkly 2619
- Fukuhara, Jitsuzo Chico
2 Agr-1739 Euclid av Bkly 6449
- Fulkert, Loren William Modesto
22 Com-1730 La Loma av Bkly 8716
- Fuller, Cora Evelyn Marie Jackson
1 LS-2519 Ellsworth st Bkly 995J
- Fuller, Frederick Thompson Colfax, Wn.
3 LS PreL-2646 Dwight way Bkly 4104
- Fuller, Jean Hadesah Fullerton
(1) 2 LS-2531 Ridge rd Bkly 7066
- Fuller, Don Luvois El Centro
1 LS PreL-2420 Channing way
Bkly 7404W
- Fuller, Lucius Aurelius Oakland
2 Com-2366 Fruitvale av, O
- Fuller, Martha Belle Fourche, S. D.
(1) 2 LS-2520 Durant av
- Fuller, Maurice De Lano San Francisco
3 LS and 1 Juris-1979 Oak st, S F
- Fuller, Verna Helen Jackson
3 Com-2519 Ellsworth st Bkly 995J
- Fullmer, George Elmo Eureka, Utah
21 Chem-2499 Mavis st, O
- Fulton, Harold Eggert Berkeley
1 Min-2248 Telegraph av Bkly 9011
- Fulton, Leah Margaret Patterson
1 LS-1762 Bushnell pl

- Funk, Belle Mae Cleveland, Ohio
1s LS-2039 Shattuck av Bkly 4929
- Furby, James Orla Union City, Ind.
1 Com-2229 Chapel st
- Furness, Margaret Gertrude Visalia
1 LS-2636 Channing way Bkly 7675
- Furuta, Albert Yoichi Oakland
2 LS-621 Tenth st, O Oakd 4115
- Gaberel, Walter Earl Hughson
1 LS-1998 Shattuck av
- Gable, Renee Camille San Francisco
4 LS-2855 Jackson st, S F West 1050
- Gagan, Kenneth Gallmeay San Anselmo
*1 Com-1735 Larkin st, S F
- Gaines, Earl John Alameda
*4 LS-2516 Clement av, A
- Gakey, Helen Elizabeth Boise, Idaho
1 LS-1827 Delaware st
- Galbreath, Beverly Jay Live Oak
3 LS-2001 Allston way Bkly 6710
- Galbreath, George Donald Redlands
2 LS-2625 Hearst av Bkly 9535
- Gale, Claudia Fitzroy Oakland
2 LS-2003 East Twenty-ninth st, O Mer 3804
- *Gall, Ellen Margaret Berkeley
4 LS-2809 Fulton st Bkly 8269
- Gallagher, Andrew Thomas Oakland
2 LS-354 Vernon st, O Oakd 2728
- Gallagher, Catherine Alice San Francisco
4 LS-824 Grove st, S F Mrkt 5604
- Gallagher, Madeline Frances San Francisco
1 LS-824 Grove st, S F Mrkt 5604
- Gallagher, Martha Estelle Oakland
2 LS-854 Vernon st, O Oakd 2728
- Gallagher, William Gabriel, Jr. Mountain Lakes, N. J.
1 Min-2345 College av Bkly 62
- Gallagher, William Reddy San Francisco
2 LS PreL-2601 Durant av Bkly 23
- Galloway, Vivienne Healdsburg
1 LS-2512 Benvenue av Bkly 8660
- Gallison, Norman Sterne Mariposa
4 LS-2634 Bancroft way Bkly 1276
- *Galt, Alice Laura Shenandoah, Iowa
4 LS-2525 Durant av Bkly 1948
- Gamage, Gwyneth Petaluma
*3 LS-2811 Regent st Bkly 303W
- Gambetta, Lucy Elvera Soledad
1 LS-2542 Durant av Bkly 1364
- Gamble, Donald Phelps Minneapolis, Minn.
*4 LS-1815 Highland pl Bkly 1682
- Gambrill, Lucile Marie Chowchilla
*2 LS-2749 Dwight way Bkly 6444
- Gammill, Miles Alameda
*1 LS PreL-2215 Central av, A Ala 1045W
- Gandrya, Clifford Frank Lakeside
*1 Mec-2547 Channing way
- Gannaway, Caroline Cornelia Harlem, Mont.
*1 Com-558 Forty-second st, O
- Garbus, Moses Morton Bronx, N. Y.
*1 LS PreL-2211 Ellsworth st Bkly 5496W
- Garcia, Elminda Faviola Raton, N. M.
1 LS-2623 Channing way Bkly 6928W
- Gardiner, Alexander Joseph Oakland
3 Mec-2200 Piedmont av Bkly 6601
- Gardiner, Chester Merle Fullerton
2 Min-2248 Telegraph av Bkly 9011
- Gardiner, Helen San Francisco
3 LS-2732 Channing way Bkly 7206
- Gardiner, Ida Jewel Isleton
2 LS-75 Vernon st, O Oakd 7173
- Gardiner, Samuel Whittier Larkspur
1 LS PreL-2411 Virginia st
- Gardiner, Vera Helen San Francisco
4 LS-1715 LeRoy av Bkly 2351
- Gardner, Belden Suydam Oakland
*2 LS-1003 E Eleventh st, O Mer 2684
- Gardner, Eleanor Minerva Los Angeles
*1 LS-2624 Virginia st Bkly 3663
- Gardner, Eleanor Ruth San Francisco
3 LS-2880 Vallejo st, S F West 1037
- Gardner, Myron Millice Riverside
(1) 2 Com-2218 Dana st Bkly 3267
- Gardner, Robert Forsythe San Francisco
1 LS-1726 Euclid av Bkly 6706
- Garfinkle, Clara Gertrude Sacramento
*1 Com-2731 Regent st Bkly 2075
- Garfinkle, Nathalie Charlotte Oakland
*1 LS-927 Grand av, O Lksd 3395
- Garibaldi, Dora Veronica San Francisco
3 LS-426 Broadway, S F Grid 1379
- Garland, Albert Luzerne Alameda
*3 Mec-3041 Baker st Bkly 6362W
- Garner, Lilian Byrd Picacho, N. M.
*3 LS-2533 Durant av Bkly 665
- Garnett, Richard Tompkins Oakland
4 LS-625A Fourteenth st, O
- Garoutte, Earle Peterson Sacramento
1 LS PreL-596 Appar st, O Pied 2723W
- Garretson, Josephine Lima, Ohio
2 Com-1006 Shattuck av Bkly 671
- Garrett, Henson Mason Glendale
3 Agr-2637 Piedmont av Bkly 5300
- Garrett, Lucille Catherine Berkeley
1 LS-2315 Dwight way Bkly 4026
- Garrett, William Albert Sacramento
3 LS PreL-2315 Dwight way Bkly 4026
- Garrettsen, Willis Gray Alameda
2 Com-2601 Durant av Bkly 23
- Garrison, Elra Gell Pasadena
3 Agr-2523 Dwight way Bkly 1027J
- Garrison, Minnie Bell Ceres
*1 LS-1922 Home st
- Garth, Francis Marian Los Angeles
1 LS-2736 Haste st Bkly 6680

- Garvey, Clayton Hamilton Berkeley
8 LS and 1 Juria-1711 Euclid av
- Gate, Paul Andrew Berkeley
1 Mec-2124 Sixth st
- Gateley, Loretto Elizabeth San Francisco
1(1) 2 LS-2319 Mission st, S F Msn 6
- Gates, Charles Archer San Francisco
2 LS-73 Webster st, S F Mrkt 923
- Gates, Muriel Salt Lake City, Utah
1 LS PreA-2418 College av Bkly 4440
- Gates, Ruth Elliott Santa Barbara
1 LS-1815 Walnut st Bkly 3092W
- Gatley, Marion Eleanor San Francisco
2 LS-2429 Channing way Bkly 4648
- Gatton, Alberta Wilma Vacaville
2 LS-1632 Spruce st Bkly 570J
- Gauthier, Auguste Eugene San Francisco
1 LS PreM-2609 Hillegass av Bkly 6897J
- Gaw, Annabelle Berkeley
3 LS-1804 Scenic av Bkly 9558J
- Gawne, Talcott Oakland
3 Com-1760 High st, O Frvl 604
- Gay, Alyce Adelaide Alhambra
1 LS-2721 Haste st Bkly 8800
- Gay, Leland Hiel Palo Cedro
1 Mec-2128 Oxford st
- Gay, Marjorie Estelle San Francisco
2 LS-582 Tenth av, S F Pac 3951
- Gay, Norman Nathan Pomona
2 LS-2307 Hearst av
- Gayman, Herley Russell Stockton
2 Com-Allston way and Oxford st Bkly 9880W
- Gayton, Anna Hadwick Santa Cruz
1 LS-2384 Bowditch st Bkly 1858W
- Gazarian, Annie Fresno
2 LS-1811 Spruce st Bkly 1006W
- Gasley, Valyne Tyrone, N. M.
1 LS-2638 Etna st Bkly 4066
- Geagen, Eleanor Philadelphia, Pa.
1 LS-Key Route Inn, O Oakd 5924
- Geagen, Margaret Janet Oakland
1 LS-Key Route Inn, O Oakd 5924
- Gear, Sara Virginia Oakland
1 LS-644 Sixty-first st, O
- Geary, Edwin William Oakland
2 LS PreL-1026 Walker av, O Lkd 4261
- Geary, Harry Oliver Berkeley
4 Com-2710 Garber st Bkly 4082W
- Geary, Margaret Louise Berkeley
3a LS-3019 Hillegass av Bkly 9057
- Geary, Maurice Bert Oakland
1s LS-2602 Thirteenth av, O Mer 232
- Gede, Alma Louise Berkeley
1 LS-2309 Russell st
- Gee, Ding Kwock Reno, Nev.
1(1) 2 Min-1917 Addison st Bkly 5779W
- Gee, Fon Kew Berkeley
4 Com-1917 Addison st Bkly 5779W
- Gee, Harold Leon Berkeley
1 Com-1147 Spruce st Bkly 8136J
- Gehrken, Ella Orilla San Leandro
2 LS-38 Cambridge av, S L SL 215W
- Gelermann, Leona Gertrude Altadena
4 LS and 1 Med-2601 Virginia st Bkly 2502W
- Geissendorfer, Rayner Warrenton, Ore.
3 LS-2601 Channing way Bkly 5904
- Geiser, Carl Yoerk Berkeley
1 Mec-2748 Regent st Bkly 4843J
- Gelber, Max Leo San Diego
(1) 2 LS-1562 LeRoy av Bkly 8282J
- Geldert, Leonard Dunbar San Francisco
1 Mec-163 Carl st, S F Mrkt 5349
- Gellatly, Lester Lyle Wenatchee, Wn.
2 LS-2001 Allston way Bkly 6710
- Geminiani, Stanley Raymond San Francisco
1 LS-3003 Fillmore st, S F West 5883
- Genelly, Muriel Elvina San Francisco
1 LS-1537 Hyde st, S F Papt 4434
- Genoway, Elizabeth Ruth Spokane, Wn.
2 LS-2519 Hillegass av Bkly 477
- Gentry, Albert William Hayward
1 Min-1402A Spruce st
- Gentry, Helen Brawley
2 LS-2248 Blake st
- Gentry, Ruth Hayward
1 Com-1402A Spruce st
- Genung, Marietta Piedmont
1s Com-216 El Cerrito av, P Pied 1977
- Genung, Ruth Seely Oakland
3 LS-216 El Cerrito av, P Pied 1977
- George, Alicia Oakland
1 LS-161 Kempton av, O Oakd 4261
- George, Anton Archie Fresno
1 LS-2508 Dana st Bkly 1857J
- George, Dorothy Marie Kingman, Ariz.
1 LS-3051 Benvenue av Bkly 6605J
- *George, Elizabeth Mary Kramer Los Angeles
4 LS-1757 Sixteenth st, O
- George Gernert Donald Kingman, Ariz.
1 Com-1730 La Loma av Bkly 8716
- George, Stanley Johnson Kingman, Ariz.
3 Com-1730 La Loma av Bkly 8716
- George, Werner Wilhelm Oakland
2 LS PreA-3477 Laguna av, O
- Georgeson, Clair Jean Eureka
2 LS-2721 Haste st Bkly 8800
- Geraldine, Desmond Gavin Los Angeles
2 Chem-2315 Dwight way Bkly 4026
- Gerbaulet, Claire K. San Francisco
1 LS-2421 Ridge rd
- Gerbaulet, Nina Joy San Francisco
1 LS-Y W C A bldg, Allston way and Union st

Gerdes, Henry George	San Francisco	Gibson, Leila Emogene	Ukiah
2 CE-30 Sanchez st, S F		4 LS and 1 Med-2731 Regent st	Bkly 2075
Gerhardy, Carl Otto	Oakland	Gibson, Maurice Embury	Los Angeles
3 Agr-1915 Fifty-first av, O Frvl 2322W		3 LS-1726 Euclid av	Bkly 6707
Gerhardy, Gladys Elizabeth	Oakland	Gibson, Mervyn Eugene	East Auburn
*1 LS-1915 Fifty-first av, O Frvl 2322W		1 Chem-2214 Union st	Bkly 2483
Gerken, Frederick Henry	San Francisco	Gibson, Roland Medley	Berkeley
2 LS PreM-1 Scott st, S F Park 3436		(1) 2 LS-2218 Union st	Bkly 474J
Gerken, Meta Margarete	San Francisco	Gibeon, Susan Eleanore	Clovis
1 LS-1621 Scenic av		1 LS-2418 College av	Bkly 4440
Gerling, Arthur	Galt	Gibson, Virgil Pennock	Berkeley
2 Mec-2320 Bancroft way	Bkly 4676	2 Agr-2416 College av	Bkly 8476J
German, William John	Ocean Park	Gidal, Harry Bernard	San Francisco
(1) 2 LS-1516 Scenic av	Bkly 7049W	1 LS PreM-2200 Dwight way	
Gerrie, Alfred Lind	Pasadena	Gielow, Frances Louise	Alameda
2 LS-2228 Dana st	Bkly 1053	1 LS-1545 Bay st, A	
Gerrish, Gladys	Berkeley	Giese, William Ernest	Oakland
*4 LS-1111 Glen av	Bkly 2628J	*1 LS-6040 Chabot rd, O	Pied 6112J
Gerry, Claresta	Ventura	Gifford, Edgar Lush	Riverside
1 LS-2704 Virginia st	Bkly 4695W	3 Min-1808 Oxford st	Bkly 5690W
Gerry, Jenne Sheldon	Ventura	Gignoux, Lucille Hawley	Berkeley
*1s LS-2704 Virginia st	Bkly 4695W	*2 LS-2519 Ridge rd	Bkly 7614
Gerson, Gus Joseph	Oroville	Gilbert, Fern Mable	Needles
2 LS-2134 Oxford st		1 LS-2426 Ellsworth st	Bkly 8646J
Ghio, Bart Albert	San Diego	Gilbert, Frances Carolyn	Hoquiam, Wn.
4 Com-2425 LeConte av	Bkly 4384	2 LS-2530 Ridge rd	Bkly 7084
Giauque, Harrie Alexander	Niagara Falls, Ont.	Gilchrist, Francis Garritt	San Francisco
1 Chem-2528 Chilton way		(1) 3 LS-240 Webster st, S F Mrkt 1733	
Giauque, Isabel Marion	Niagara Falls, Ont.	*Gilcrease, Berry	Lemoore
1 Chem-2528 Chilton way		4 Com-2205 Cedar st	Bkly 2622
Giauque, William Francis	Niagara Falls, Ont.	Gilcrease, Golda	Lemoore
4 Chem-2528 Chilton way		*3 Com-2205 Cedar st	Bkly 2622
Gibbons, Margaret Virginia	Reno, Nev.	Gilcrease, Virgil Vernon	Lemoore
1 LS-2421 Virginia st	Bkly 8660	1 Agr-2205 Durant av	Bkly 6981
Gibbs, Alice Chittenden	Berkeley	Gillfillan, Mary Jessie	Oakland
1 LS-1395 Tamalpais rd	Bkly 1737W	*1 LS-Hotel Harrison, O	Lksd 1900
Gibbs, Gertrude	Oakland	Gilkey, Esther Gustavia	Oakland
2 LS-139 Grand av, O		1 LS-6449 Colby st, O	Pied 8309J
Gibbs, William Hendrickson	Berkeley	Gilkey, Winfield Karr	Oakland
*1 Agr-1395 Tamalpais rd	Bkly 1737W	2 Agr-6449 Colby st, O	Pied 8309J
Gibbs, William Stafford	Los Angeles	Gill, Gibson Monroe	Riverside
2 Com-2717 Hearst av	Bkly 5770	2 LS-2247 Bancroft way	Bkly 3873
Gibeaut, Harold Lee	Berkeley	Gill, Harold Eugene	San Francisco
(1) 3 Com-1909 Delaware st	Bkly 5988	*1s Com-281 San Jose av, S F	Valen 5990
Gibson, Donald Cameron	San Leandro	Gillelan, Charles Bonnemort	Berkeley
4 LS-2017 Durant av	Bkly 3808R	*1s Com-2428 College av	Bkly 1033J
Gibson, Frederick	Clovis	Gillespie, Alice Ogden	Galveston, Texas
*2 Agr-2634 Bancroft way	Bkly 1276	*1 LS-Lafayette apts	Bkly 4026
Gibson, Grace Eugenia	Detroit, Mich.	Gillespie, Margaret Emily	Morgan Hill
*1 LS-1744 Arch st	Bkly 8213	*1 LS-1621 Scenic av	
Gibson, Isabel Edith	San Leandro	Gillett, Willis Vernon	Los Angeles
1 LS-2017 Durant av	Bkly 8808R	1 Min-2331 LeConte av	
		Gillette, Bruce James	Eureka
		*1 LS-2437 Piedmont av	Bkly 7333

- Gillette, James Norriss Berkeley
 *1 LS-2437 Piedmont av Bkly 7388
 Gilliam, Sue Porterville
 3 LS-2222 Atherton st Bkly 5479J
 Gillies, Donald John Oakland
 2 LS PreL-2646 Dwight way Bkly 4104
 Gilliland, Helene Blakeley Alameda
 1 LS-2060 Alameda av, A Ala 1654W
 Gilliland, John Adam Oakland
 1 Mec-3028 E Fifteenth st, O Frvl 1408W
 Gilman, Lloyd B. San Francisco
 *2 LS PreL-2120 Kittredge st
 Gilman, Thelma Mooers Oakland
 3 LS-440 Fifty-ninth st, O Pied 1954W
 Gilmartin, William Houston San Francisco
 1 Mec-2124 1/2 Center st
 Gilmore, Coral Ettena Houston, Tex.
 2 LS-2029 Blake st Bkly 3746W
 Gilmanan, Cyril Mark Berkeley
 2 LS-2887 Webster st Bkly 7825W
 Gimbal, Eleanor Edna Berkeley
 1 LS-2744 Regent st Bkly 2832W
 Gimbal, Leroy M. Oakland
 4 LS-2522 Ridge rd Bkly 5950
 Ginoux, Lucile Lilyan Oakland
 2 LS-254 Perkins st, O Oakd 3891
 Girard, Annette Genevieve San Luis Obispo
 4 LS-2520 Virginia st Bkly 7247
 Girtton, Raymond Elwood Orange
 2 Agr-2338 Dwight way Bkly 5874W
 Girvin, Claude Raymond Oakland
 1 LS-548 Twenty-seventh st, O Oakd 7067
 Girvin, Earl Rolland Oakland
 2 LS PreL-548 Twenty-seventh st, O Oakd 7067
 Girvin, Harold Steven Oakland
 1 LS-548 Twenty-seventh st, O Oakd 7067
 Given, Horace Robert Weaverville
 1 LS PreL-2203 Atherton st Bkly 9368R
 Given, Paul Arthur Bishop
 2 Min-2122 Hearst av
 Glasco, Cleworth Emerson Grand Junction, Colo.
 (1) 2 Com-2825 Dana st Bkly 8383W
 Glasco, Florence Mary Grand Junction, Colo.
 1 LS-1840 Berryman st Bkly 7999W
 Glaser, Marcus Lewis San Francisco
 2 LS-621 Montgomery st, S F Sutr 4450
 *Glaser, Mark Albert San Francisco
 2 Med-773 Pine st, S F Krny 4523
 Glasgow, Katherine Rowland Berkeley
 3 LS PreM-Hotel Claremont Bkly 9300
 Glass, Wickes Edward Berkeley
 2 Com-3051 Benvenue av Bkly 6650J
 Glavin, Madeline Margaret Oakland
 *1 LS-415 Thirty-seventh st, O Pied 4174
 Glavin, Mary Elizabeth Oakland
 1s LS and 1 Juris-415 Thirty-seventh st, O Pied 4174
 Gleason, George Butler Yreka
 4 CE-2647 Dwight way Bkly 5881
 Gleason, K. Norma Hollywood
 1 LS-129 Haight st, S F Park 4841
 Gleason, Morton Hiram South Pasadena
 1 LS-2429 Grove st Bkly 2924J
 Gleason, Walter Martin Oakland
 2 LS PreL-1058 Forty-eighth st, O Pied 7050W
 Glendenning, Allan Deane Santa Clara
 8s Agr-University Farm, Davis
 Glendenning, George Nye Santa Clara
 1 Agr-2001 Allston way Bkly 6710
 Glendinning, Don Keeble Denver, Colo.
 1s LS and 1 Juris-85 Linda av, O Pied 6210W
 Glenn, Jimmie Dewey Pomona
 2 LS PreL-2647 Durant av Bkly 102
 Glenn, Myrtle Dales Berkeley
 2 LS-2829 Hillegass av Bkly 2176J
 Glenn, Paul Eugene Bakersfield
 1 LS PreL-2426 Ellsworth st Bkly 8646J
 Glenn, William Archer Sacramento
 4 Agr-University Farm, Davis
 Glick, Fletcher Ogden, Utah
 2 Com-2647 Durant av Bkly 102
 Glickman, Abe Oakland
 4 LS and 1 Juris-402 Grand av, O Lksd 3716
 Glidden, Josephine Piedmont
 2 LS-24 Loreta av, P Pied 4698
 Glide, Joseph Henry Sacramento
 1 LS-2620 Bancroft way Bkly 8870
 Glover, Charles Arthur Selma
 (1) 2 LS-2431 Woolsey st Bkly 8086W
 Glukfeld, Jerome San Francisco
 1 LS PreM-2436 Durant av Bkly 6658W
 Godbe, Raymond Los Angeles
 *1 LS-1608 Grove st Bkly 6829J
 Goddard, Ruth Modesto
 1 LS-1700 Euclid av Bkly 6789
 Godde, Harry Anthony Hollywood
 4 Agr-2832 College av Bkly 1134
 Godley, Margaret Vallejo
 2 LS PreM-2732 Channing way Bkly 7026
 Godward, Wilhelmina Alice Kenmare, N. D.
 8 LS-2061 Central av, A
 Godwin, Merle Haun Napa
 *1 Mec-1711 Euclid av Bkly 3378
 Goerlitz, Herbert Wilms Alta Loma
 3 LS PreL-2412 Piedmont av Bkly 5098

- Goetz, Bertha Alice Santa Ana
 3 LS-2617 LeConte av Bkly 8886J
- Gogate, Rajaram Vinayak India
 1 LS-1819 Dwight way Bkly 6989J
- Gohman, Henry Theodore La Habra
 1 LS-2126A Dwight way Bkly 1957
- Gohn, Virginia Alameda
 4 LS-701 Grand st, A Ala 8500
- Gold, Benjamin San Francisco
 3 Chem-2628 Sutter st, S F West 8444
- Gold, Julius San Francisco
 1s LS-166 Twentieth av, S F Pac 5518
- Goldammer, Selma Johanna Old Town, Maine
 2 LS-718 Arlington av Bkly 5123J
- Goldberg, Hazel Dene Long Beach
 (1) 2 LS-1621 Scenic av Bkly 5102
- Goldberg, Joseph Los Angeles
 2 LS-2016 Dwight way
- Golden, Eugene Christopher Etna Mills
 3 Com-2120 Kittredge st Bkly 2090
- Golden, Marie Burdock Oakland
 3 LS and 1 Juris-669 Fifty-eighth st, O
- Goldfarb, Abe Minneapolis, Minn.
 1 LS PreL-6454 Benvenue av
- Goldie, Gladys Wilmington
 (1) 3 LS-2956 Hillgeass av Bkly 7541W
- Goldman, Beatrice Doris Los Angeles
 4 LS-2281 Bancroft way Bkly 4106J
- Goldman, Frank Conley
 1 Min-1826 Hearst av
- Goldman, Herbert Albert San Francisco
 1 Chem-52 Hollis st, S F West 9259
- Goldman, Vera Nevada Everett, Wn.
 1 LS-2335 Warring st Bkly 6744
- Goldmann, Annetta Grace Milwaukee, Wis.
 (1) 3 LS-2542 Durant av Bkly 1364
- Goldstein, Ben Sacramento
 1 LS-2420 College av Bkly 906J
- Goldstein, Edgar Louis San Francisco
 2 Com-2248 Telegraph av Bkly 9011
- Goldstone, Bernice Beatrice San Francisco
 2 LS-3271 Jackson st, S F West 8899
- Goldthwaite, Gardner Cobb Alameda
 4 Mec-871 Cedar st, A Ala 2278
- Goldthwaite, Helen Elizabeth Alameda
 12 LS-871 Cedar av, A Ala 2278
- Goldwater, Nathan H. Oakland
 8 LS and 1 Juris-Dana Hall Bkly 1347
- Gomer, Alice Cecilia Oakland
 13 LS-2627 Hearst av Bkly 4009
- Gomes, Octavia
 Nazareth-Pernambuco, Brazil
 1s Agr-2213 Atherton st Bkly 9368W
- Gompertz, Ruth Oakland
 8 LS-Claremont Manor, O Pied 2004W
- Good, Henry George Berkeley
 3 Agr-2212 Channing way Bkly 6074
- Goode, Beatrice Maude Fowler
 1 LS-2632 Etna st Bkly 7791J
- Goode, Gladwyn Frances Mary Fowler
 1 LS-2632 Etna st Bkly 7791J
- Goodell, Florence Los Angeles
 11 LS-2529 Dwight way Bkly 4474W
- Goodfellow, Lillian Eva Berkeley
 1s LS-2216 Ellsworth st Bkly 8666J
- Goodman, Hubert Hill Chico
 2 LS-116 Monticello av, O Pied 1379
- Goodman, Sanford Joseph San Francisco
 2 LS-1030 Post st, S F Frkn 7375
- Goodpastor, Herbert Edwin Sacramento
 1 LS PreA-2406 Dana st Bkly 7713
- Goodrich, Augustus George Portland, Ore.
 2 LS PreL-2238 Ellsworth st Bkly 295W
- Goodrich, Clifford Stephen Turlock
 3 Com-2211 Ellsworth st Bkly 5496W
- Goodrich, Helen Martha Turlock
 2 LS-2416 Stuart st Bkly 7813W
- Goodrich, Irma Elinore Berkeley
 1 LS-1734 Cedar st Bkly 5627W
- Goodsell, Ralph Evander Berkeley
 4 LS-2614 Dana st Bkly 8982J
- Goodson, Mabel Blane Los Angeles
 (1) 3 LS-1815 Walnut st Bkly 3092W
- Goodwin, Harriett Lillian San Francisco
 1 LS-1834 Broderick st, S F Fmr 3542
- Goodwin, Kathryn Dickinson Los Angeles
 1 LS-2620 Benvenue av Bkly 7380W
- Goong, Rose Victoria San Francisco
 4 LS-874 Sacramento st, S F China 1387
- Georgian, Esther Oakland
 1 LS-624 Thirty-seventh st, O
- Gordinier, Homer Terra Bella
 1 LS-2718 Garber st
- Gordon, Aaron New York, N. Y.
 8 Agr-2201 Ellsworth st Bkly 6037W
- Gordon, Amy Oakland
 4 LS-5602 Taft av, O Pied 6571
- Gordon, Arthur Ridgely Santa Cruz
 1 CE-2214 Union st
- Gordon, Edward Blair San Francisco
 1s Chem-1726 Euclid av Bkly 6706
- Gordon, Lena May Berkeley
 4 LS-2308 LeConte av Bkly 8385W
- Gordon, Rexford Lewis Berkeley
 1 Agr-1920 Grove st Bkly 2076J
- Gordon, Vivian Clarice Berkeley
 1 Com-1920 Grove st Bkly 2076J
- Gorman, Sidney Silvey San Francisco
 4 CE-5 States st, S F Mrkt 5790
- Gorter, Dorothea Grandville
 3 LS-2611 Durant av Bkly 4525W
- Gosling, George Chapman Napa
 12 LS-2527 Ridge rd Bkly 5098
- Goss, Isabel Lane Ontario
 2 LS-1715 LeRoy av Bkly 2351
- Goss, Merle Elwood Oakland
 2 LS-8921 Ruby st, O Pied 7511

Goss, Wesley Parry	San Diego	Grant, Helen V.	Vacaville
2 Min-2785 Hillgass av	Bkly 1720J	1 LS-2714 Ridge rd	Bkly 9098
Gossage, Mary Edna	Petaluma	Grant, John Nagle	Oakland
2 Com-2607 Piedmont av	Bkly 3800	1 LS-2620 Bancroft way	Bkly 817
Gottlieb, Nicholas	San Francisco	Grant, Kathleen Louise	Chicago, Ill.
1 LS-2208 Ellsworth st		14 LS-2714 Ridge rd	Bkly 9098
*Gould, Harriet Sheaffe	Los Angeles	Grant, William	San Francisco
4 LS-1400 Arch st		2 Agr-2251 Telegraph av	Bkly 6492W
Gowdy, Esther Elizabeth	Santa Ana	Granvold, Hazel Clare	Spokane, Wn.
4 LS-2400 Bancroft way	Bkly 6488J	11 LS-2619 Haste st	
Gowan, Margaret	San Francisco	Grasmoen, Arnold	Le Grand
*1a LS-1130 Cole st, S F	Mrkt 1664	1 LS-2529 Fulton st	
Gowen, George Morton	Bakersfield	Grassie, Marie Mellinger	Pasadena
4 Agr-2625 Hearst av	Bkly 9585	3 LS-2725 Channing way	Bkly 7950
Grace, Dora Elizabeth	Los Angeles	Grassie, Sara Fearnese	Pasadena
2 LS-1905 Virginia st		3 LS-2527 Channing way	Bkly 7950
Grady, Gladys Evelyn	Dixon	Graun, Richard Ernest	San Francisco
3 LS-1547 Euclid av	Bkly 6681	1 LS PreM-Anderson's Sanitarium, O	
Grady, Henry Patrick	Los Angeles		Fvrl 488
1 Mec-2486 Virginia st	Bkly 2092W	Grave, Beatrice Isa	Oakland
Grassier, James Bernard	Holtville	11 LS-692 Lakeshore av, O	
1 LS PreL-2336 College av		Gravem, Eva Berg	Berkeley
Graf, Gladys Hayes	Seattle, Wn.	1 LS-1828 Delaware st	Bkly 9080W
2 LS-2588 Channing way	Bkly 6572	Gravem, Harold Larson	Stockton
Graff, Edward	Berkeley	3 LS-2316 Bowditch st	Bkly 1416
11 LS-2808 Regent st	Bkly 1008	Graves, Carl Anderson	Clayton
Graham, Alice Margaret	Oakland	1 LS PreL-2605 Durant av	Bkly 6981
1 LS-4130 Gilbert st, O		Graves, Edith Frederika	New York, N. Y.
Graham, Arnold Wilson	Tracy	(1) 3 LS-2616 Channing way	Bkly 5450
1 LS-1711 Euclid av	Bkly 2878	Graves, Francis Gibbons	Alameda
Graham, Helen Augusta	San Francisco	1 Chem-1611 San Antonio av, A	
3 LS-2400 Dwight way	Bkly 1822J		Ala 145
Graham, Hervey King	Berkeley	Graves, Grace Kathlyn	El Cajon
4 LS and 1 Med-2611 Webster st		1 LS-2821 Bancroft way	Bkly 1765
	Bkly 4180J	Graves, John William	Clayton
Graham, James Duncan	Long Beach	3 CE-2605 Durant av	Bkly 6981
3 Agr-2646 Dwight way	Bkly 4104	Gray, Ada Sheridan	Piedmont
Graham, Mabel Isabel	Oakland	2 LS-387 Hillside av, P	Pied 2179
2 LS-4130 Gilbert st, O		Gray, Caroline I.	Alameda
Grandy, Willis Irving	Bakersfield	11 LS-1848 Central av, A	Ala 1129J
3 Com-1780 La Loma av	Bkly 8716	Gray, Constance	San Francisco
Granger, Farley Benjamin, Jr.	San Leandro	(1) 4 LS-2611 Durant av	Bkly 4525W
2 LS-San Leandro	SL 155	Gray, Edwards Fitzhugh	Weaverville
Grant, Charles Dennis	Ukiah	1 LS PreL-2203 Atherton st	
3 Agr-1829 Walnut st	Bkly 5231W	Gray, Gerald Harry	Oakland
Grant, Charles Hayden	Cloverdale	2 LS PreM-598 Walsworth av, O	
4 LS-2231 Piedmont av	Bkly 1803W		Pied 5716J
Grant, Corenne	Los Angeles	Gray, John De Witt	Fresno
11a LS-2240 Telegraph av	Bkly 1249	1 LS-2409 Bowditch st	Bkly 8437J
Grant, Donald Fiske	Berkeley	Gray, Leonore Margaret	Oakland
11 LS-3120 Eton av	Pied 288J	1 LS-2201 Harrison blvd, O	Lkad 1055
Grant, Francis Zeryl	Ukiah	Gray, Marion Grace	Vallejo
2 LS PreM-2401 Durant av	Bkly 6504	11a LS-2141 Pacific av, S F	
Grant, Helen Theodora	Los Angeles	Gray, Maude Blanche	Los Angeles
(1) 2 LS-2798 Benvenue av		(1) 2 LS-2723 Durant av	Bkly 9531
	Bkly 5274W		

- Gray, Rowena Blanche Chowchilla
 *1 Com-2542 Durant av
 Gray, Violet McLaren San Francisco
 3 Com-755 Capp st, S F Man 7586
 Graybiel, Lloyd Erwin Chico
 4 LS and 1 Juris-1919 Bancroft way
 Bkly 6324J
 Graydon, Helen St. Clair Berkeley
 1 LS-2500 Durant av Bkly 670J
 Greaney, Emily Frances Needles
 1 LS-2435 Hilgard av Bkly 6406
 Greaser, Arthur Dewey Pomona
 *1a Agr-2412 Piedmont av Bkly 5098
 Greaser, Helen Jeanette Pomona
 1 LS-2520 Durant av Bkly 1675
 Greeley, Julia Berkeley
 2 LS-Ridge rd and Highland pl
 Bkly 2809J
 Green, Agnes Raber San Jose
 4 LS-2434 Haste st
 Green, Arda Vallejo
 3 LS-2219 Union st Bkly 9286W
 Green, Frederick Cooper Phoenix, Ariz.
 1 Min-2315 Haste st Bkly 4026
 Green, Gladys Marguerite Pocatello, Idaho
 3 LS-2505 Dwight way Bkly 182W
 Green, Harold Lyon Lincoln
 2 LS PreL-2500 College av Bkly 5942
 Green, Harold Robison Dos Palos
 1 Agr-1006 Bristol st
 Green, Ida Clara Stockton
 3 LS-2523 Hillegas av Bkly 710
 Green, Marion Alphonse Alameda
 *1 LS PreM-1834 San Antonio av, A
 Ala 2381J
 Green, Metta Clare Vallejo
 3 LS-2219 Union st Bkly 9286W
 Green, Russell Hamilton San Francisco
 4 Mec-575 Eleventh av, S F Pac 4953
 Green, Virginia Fidelia Berkeley
 4 LS-1417 Bonita av Bkly 7983W
 Green, Wilber Allen Vallejo
 2 Mec-2215 S Atherton st Bkly 2744J
 Greenberg, Adrian Bernhard San Francisco
 *1 Mec-1845 Page st, S F Park 5187
 Greenberg, David Morris Berkeley
 2s Chem-2223 Union st
 Greenberg, Herman David Oakland
 *1 Chem-3220 Magnolia st, O Pied 3479
 Greenberg, Sadye Berkowits Pueblo, Colo.
 *1 LS-2129 Channing way
 Greene, Dorothy Hildebrand Portland, Ore.
 1 LS-2645 Benvenue av Bkly 6291J
 Greene, Elizabeth Eva-Frances Berkeley
 2 LS-11 Hillside court Bkly 4420J
 Greene, George Arthur San Pedro
 *1 Mec-927 Myrtle st, O
- Greene, Hartley Baldwin Oakland
 *1 Agr-479 Twenty-seventh st, O
 Oakd 2132
 Greene, Louis Kaufman, Jr. San Francisco
 2 Agr-2527 Ridge rd Bkly 6107
 Greene, Mary Virginia Los Angeles
 *1(1) 2 LS-2523 Hillegas av
 Greenhalgh, Ethel Mae Orange Vale
 *1 LS-2306 Waverly st, O Oakd 5943
 Greenhood, Clarence David San Bernardino
 4 LS-2538 Cedar st Bkly 210W
 Greening, Earl McKnight Los Angeles
 *1a CE-2305 Bancroft way Bkly 7461
 Greenwood, George Monroe Oakland
 3 LS-67 King av, P Pied 2299
 Greer, Edwin Daniel Berkeley
 1 LS PreM-2628 Durant av Bkly 4772
 Greer, Ruth Alice Berkeley
 2 LS-2628 Durant av Bkly 4773
 Gregg, Ina Myra Santa Cruz
 3 LS-2215 Grant st Bkly 256W
 Gregg, Rebecca Eads Glendale
 4 Com-2624 Virginia st Bkly 8663
 Gregory, Donald Munson Berkeley
 4 LS-1726 Euclid av Bkly 6706
 Gregory, Edward Payson Fresno
 1 Com-2409 Bowditch st Bkly 8437J
 Gregory, Elma Murry Arbuckle
 4 Agr-2112 Kittredge st Bkly 9150
 Gregory, Florence Berandine Normal, Ill.
 (1) 4 LS-2315 Durant av
 Gregory, Julia San Francisco
 *1a LS-2625 Piedmont av Bkly 8686J
 Gregory, Lester George Fort Bragg
 2 Mec-2134 Parker st
 Gregory, Marion Louise Whittier
 (1) 3 LS-2627 Hearst av Bkly 4009
 Gregory, Mary Louise Detroit, Mich.
 1 LS-1652 Marin av Bkly 8475J
 Greig, Lucille Frances Berkeley
 4 LS-2546 Etna st Bkly 6281W
 Greig, Roland Robert Berkeley
 1 Chem-2546 Etna st Bkly 6281W
 Gresham, James Robert San Diego
 4 LS-980 Bush st, S F Papt 4862
 Grey, Fred Arthur Hollywood
 *1 LS-529 Bush st, S F
 Grier, Ligar Patterson Los Angeles
 *1 LS-2251 College av Bkly 9107
 Grier, Thomas Johnston Los Angeles
 *2 LS-2251 College av Bkly 9107
 Griffin, Charles Willard, Jr. Alameda
 1 LS-1621 Santa Clara, av, A Ala 379
 Griffin, Everett San Francisco
 2 LS-2529 Hearst av Bkly 40
 Griffin, Marie Gertrude Lenoak
 3 LS-2212 Blake st Bkly 7409J
 Griffin, Philip El Centro
 3 Agr-University Farm, Davis

- Griffin, Raymond Earl Berkeley
4 Agr-University Farm, Davis
- Griffin, Robert William Martinez
3 Mec-2500 College av Bkly 5942
- Griffin, Russell San Francisco
*1s Mec-645 Bush st, S F Krny 1263
- Griffin, Thomas Calhoun Oakland
2 LS-892 Grand av, O Oakd 8129
- Griffis, Robert Loren San Francisco
(1) 3 Chem-1725 Euclid av Bkly 4348
- *Griffith, Enid Sydney Penryn
4 LS-2525 Durant av Bkly 2060
- Griffith, Fern Viola Hemet
(1) 3 LS-2214 Dana st Bkly 1160
- Griffith, Golden Glenn San Francisco
3 LS-1856 Eleventh av, S F
- Griffiths, Hall McAllister Berkeley
*3 LS-1529 Shattuck av Bkly 6811J
- Griffiths, Walter Geraldson Berkeley
4 Agr-University Farm, Davis
- Grill, Lester Edward Puente
3 CE-2400 College av Bkly 9180J
- Grim, Ruth Teresa Anaheim
3 Agr-University Farm, Davis
- Grimes, Lucy Salisbury San Francisco
1 LS-2714 Ridge rd Bkly 9098
- Grimes, Margaret Weatherby San Francisco
3 LS-2714 Ridge rd Bkly 9098
- Grinsfelder, Sam Spokane, Wn.
4 Min-2538 Durant av Bkly 8861W
- Grinstead, Marion Owen Colusa
1 LS-2601 Channing way Bkly 5904
- Grizzle, Mervin A. Arroyo Grande
4 LS-1711 Euclid av Bkly 8378
- Grodsky, Isidor Lewis San Francisco
1 LS PreM-648 Hayes st, S F
- Groefsema, Christine Ella Mountain Home, Idaho
2 Com-2204 Durant av Bkly 8170
- Groesbeck, Katharine Mary San Francisco
(1) 2 LS-2214 Dana st Bkly 1200
- Gross, Anna Hershey Manheim, Pa.
* (1) 2 LS-2218 Blake st
- Gross, Bella Los Angeles
*1 LS-2700 Hillegass av
- Gross, Bertrand Marvin San Francisco
2 LS PreL-1190 Fulton st, S F Fldr 593
- Gross, Harry Leon San Francisco
2 LS PreL-2208 Ellsworth st
- Gross, Mabel Theresa Campbell
3 LS-2151 Stuart st Bkly 2846W
- Gross, Marian Sweasey Eureka
*1 LS-2417 LeConte av Bkly 5650
- Gross, Miriam Gwendolyn Oakland
*1 LS-1068 Eighteenth st, O Lakd 3077
- Gross, Stephen Sage Oakland
*1 LS-493 Bellevue, O Oakd 1827
- Grossman, Orran Irving Portland, Ore.
1 LS PreM-2630 Bancroft way
- Grout, Dorothy Ellen Pueblo, Colo.
(1) 3 LS-2581 Ridge rd Bkly 7066
- Grove, Lois H Willits
4 LS-2253 Piedmont av Bkly 5542J
- Grove, Miriam San Diego
1 LS PreM-2709 Channing way Bkly 8528
- Grover, Elinor Oakland
1 LS-556 Twenty-fourth st Oak 2892
- Grover, Flora San Francisco
3 LS-2421 LeConte av Bkly 8062
- Groves, Everett Clement Valley Center, Kans.
3 Com-1996 University av
- Grube, Ethel Maude Corning
2 Com-2583 Durant av Bkly 665
- Grukke, Maude Atlantic, Iowa
(1) 2 LS-2400 Piedmont av Bkly 5224
- Grunauer, Bertha Viola Tracy
1 LS-1330 Cole st, S F Park 7078
- Grundell, Joseph Jefferson Fresno
3 Min-1640 Euclid av Bkly 7057
- Grundman, Katherine Eloise San Francisco
2 LS-236 Jersey st, S F
- Grunewald, Lauren Henry Pleasant Grove
1 LS PreL-1935 Bancroft way Bkly 4458W
- Grunsky, Carroll Gillis Stockton
4 LS-2409 College av Bkly 8476W
- Guiberson, Ellen Bernice Taft
* (1) 2 LS PreM-2524 LeConte av Bkly 2531
- Guild, Ethel Salt Lake City, Utah
* (1) 3 LS-2329 Channing way
- Guilford, Margaret Susan Orland
4 LS-2627 Hearst av Bkly 4009
- Guilford, Ralph Waldo Orland
2 Agr-2218 Union st Bkly 474J
- Gunderson, George Oliver Eureka
2 Med-2803A Telegraph av
- Gunderson, Helen Gulovna San Francisco
4 LS-2315 Hilgard av Bkly 2157J
- Gunn, Harold Simpson Napa
1 Com-2508 Dana st Bkly 1357J
- Gunnison, Harold William Los Angeles
4 Com-2625 Hearst av Bkly 9585
- Gunston, George Tilley Tacoma, Wn.
1s Com-5712 Oak Grove av
- Gunzendorfer, Mervyn San Francisco
2 LS-1809 Euclid av Bkly 1615
- Gunzendorfer, Wilton Louis Monterey
2 LS-1809 Euclid av Bkly 1615
- Gupta, Sailendra Nath Calcutta, India
*3 LS PreM-2043 Center st
- Guppy, Eileen Almira Bishop
2 LS-1634 Walnut st Bkly 1730W
- Gurley, Dorris Dimmock San Francisco
3 Mec-2605 Durant av Bkly 6981

- Gurney, Abraham LeBaron Hilo, T. H.
2 Agr-2634 Bancroft way Bkly 1276
- Gustus, Helen Nora Long Beach
12 LS-2529 Cedar st
- Guthrie, Esther Luella Oakland
4 LS-271 Forty-first st, O Pied 7080W
- Guthrie, James Lakenan San Francisco
2 CE-2778 Green st, S F Flmr 3353
- Gutierrez, Frank L. Azusa
21 Com-2114 Durant av Bkly 7426J
- Gutsch, Irma Siglinde Alameda
1 LS-1716 LeRoy av Bkly 4311
- Guy, Harriet Geraldine Berkeley
3 LS-2515 Hillegass av Bkly 6147W
- Guy, Kathryn Johnston Oakland
4 LS-182 Monticello av, P Pied 5710W
- Gwynn, Charles Gruenhagen San Francisco
11 Chem-2425 LeConte av Bkly 4834
- Gwynn, May Los Angeles
1 LS-2511 Channing way Bkly 3131J
- Gwynn, Robert Henry Los Angeles
1 Chem-2424 Channing way Bkly 734W
- Haas, Glenn Rexford Ferndale
1 LS-2416 Durant av
- Haberkorn, Herbert Walter Berkeley
3 CE-1423 Walnut st Bkly 8629J
- Hacke, Helen Margaret Alameda
1 LS-1424 Morton st, A Ala 198
- Hacker, Kathleen Santa Monica
4 LS-2416 College av Bkly 8476J
- Hacker, Laurence William San Francisco
1 Mec-1925 Page st, S F
- Hacker, Margaret San Francisco
1 Com-1925 Page st, S F
- *Hackk, Vera Eliot Sacramento
4 LS-2228 Dana st Bkly 1053
- Hadeler, Louise Marguerite San Francisco
1s LS-2094 Mission st, S F Mrkt 1985
- Hadley, Edward Fuller Ontario
(1) 2 Com-2248 Telegraph av Bkly 9011
- Hadley, Frederick Ernest Pasadena
4 Agr-University Farm, Davis
- Hadley, Grace Anna Grinnell, Iowa
(1) 4 LS-2520 Durant av
- Hadley, Paul Thomas San Francisco
1 Mec-129 Haight st, S F Park 4841
- Hadley, Walter Wilbert Richmond
13 Min-628 Thirtieth st, R Rchd 967-L2
- Haegelein, Hugh Francis Oakland
2 Agr-1357 Tenth av, S F Snst 1213
- Haffner, Anna Elizabeth Berkeley
3 Com-2619 Regent st
- Hagel, Thomas Michael Lodi
2 LS PreM-2401 Durant av Bkly 6504
- Hugensen, Madeline A. San Francisco
3 LS-2627 Hearst av Bkly 4009
- Hagerty, Horace Houston Riverside
3 Com-2701 Hearst av Bkly 2421
- Hagerty, Michael Joseph Berkeley
2s LS-2209 Eunice st
- Haggerson, Hazel Margaret Silver City, N. M.
1 LS-2436 Channing way Bkly 6433W
- Haglund, Roger Walter Riverside
11 LS-2406 Bancroft way
- Hagman, Edgar Albert Watsonville
13 Chem-2312 College av Bkly 893W
- Hagopian, John Kisag Fresno
21 LS PreL-1508 Oxford st Bkly 3201W
- Hagopian, Ralph D. S. Berkeley
21 Mec-808 Santa Barbara rd Bkly 7534J
- *Haesey, William Martin Tulare
4 LS and 1 Juris-2224 Dana st Bkly 4216J
- Hahn, Vera Louise Oakland
1 LS-1162 Oxford st Bkly 1723W
- Hahne, Bruno Cape Town, South Africa
2(1) 3 Agr-2203 Atherton st
- Haight, Louis Cameron Stockton
1 LS PreM-426 Orange st, O Oakt 2206
- Hallay, Elizabeth Lee Portland, Ore.
2 LS-Hotel Whitecotton Bkly 7300
- Haines, Alfred DeWitt Santa Barbara
2 LS PreL-2829 Blake st Bkly 2424J
- Haines, Emily Moore Santa Barbara
4 LS-2329 Blake st Bkly 2424J
- Haken, Myrtle Berkeley
3 LS-2623n Parker st Bkly 2428J
- Haldeman, Keene Oliver Berkeley
3 LS PreM-2448 Prince st Bkly 7129W
- Halderman, Clarence William Santa Ana
2 Mec-2620 Bancroft way
- Hale, Elah Berkeley
4 LS PreA-3012 Grove st Bkly 4784J
- Hale, Merle Van Ness Fullerton
(1) 3 LS-Oxford apts Bkly 2858
- Hale, Ray Morrison Fullerton
4 Agr-Oxford apts Bkly 2358W
- Hales, Irma Gustine
3 LS-2511 Channing way Bkly 3121J
- Haley, Robert Wilson Oakland
11 LS-2536 Ninth av, O Mer 2367
- Halford, Elizabeth Agnes Dinuba
3 LS-2436 Channing way Bkly 6433W
- Hall, Bernice Salt Lake City, Utah
11 LS-2315 Dwight way Bkly 4026
- Hall, Betty Tracy Ophir
23 LS-1736 Highland pl Bkly 210J
- Hall, Dorothy Elizabeth Petaluma
(1) 3 LS-2714 Ridge rd Bkly 9093

Hall, Florence L.	Stockton	Hamilton, Aymer Jay	Berkeley
1 LS-1632 Spruce st	Bkly 570J	2s LS-2636 Hilgard av	Bkly 1049J
Hall, George Hoffman	Oakley	Hamilton, Charles Maynard	Dinuba
¹ 1 Mec-1230 Versailles av, A		1 Agr-2203 Atherton st	
Hall, Jannette	Corcoran	Hamilton, Clarice Roberta	Berkeley
3 LS-2530 Ridge rd		1 LS-2508 Ridge rd	Bkly 979W
Hall, John Leslie	Hanford	Hamilton, Gladys Beatrice	Glendale
¹ 1 LS-2534 Ridge rd	Bkly 3224W	² (1) 2 LS-2435 Hilgard av	Bkly 6406
Hall, John William	Berkeley	Hamilton, James Francis	National City
2 Min-2638 Haste st	Bkly 1044J	¹ 1 CE-2547 Channing way	
Hall, Kathryn	Berkeley	Hamilton, John Bruce	Berkeley
1 LS-2638 Haste st	Bkly 1044J	(1) 2 Com-19 Panoramic way	Bkly 6509W
Hall, Lowell Carey	Oakland	Hamilton, Julia Thomas	Philadelphia, Pa.
4 LS-2522 Ridge rd	Bkly 5950	4 LS-2621 Rose st	Bkly 2788
Hall, Raymond A.	San Francisco	Hamilton, Kenneth Howard	Tracy
2 Mec-1721 Beverly pl	Bkly 6090W	¹ 1 Mec-1628 Walnut st	
Hall, Robert Louis	Sacramento	Hamilton, Laurentine Seaver	Oakland
3 LS and 1 Juris-2627 Ridge rd	Bkly 2541	4 LS-2237 Virginia st	Bkly 809
Hall, Ruth Higgins	Pocatello, Idaho	Hamilton, Louis Cnopius	Petaluma
³ LS-145 Shasta st	Bkly 276	1 Com-2115 Delaware st	Bkly 9399J
Hall, Verne	Berkeley	Hamilton, Mabel	Eureka
(1) 2 LS-2535A Hillegass av		2 LS-2821 Bancroft way	Bkly 1765
Hall, Victor Ernest	Victoria, B.C.	Hamilton, Norman Standart	Oroville
(1) 2 LS PreM-2415 Bowditch st	Bkly 8650J	3 Mec-1730 La Loma av	Bkly 8716
Hall, William Bryan	San Jose	Hamilton, Roger Farrell	Oakland
(1) 3 LS-2333 Channing way		1 Com-4223 Terrace st, O	Pied 2218J
Halladay, Julia Rebecca	Great Barrington, Mass.	Hamilton, Ruth Gertrude	Denver, Colo.
3 LS-2636 Haste st	Bkly 1144W	(1) 2 LS-2508 Ridge rd	Bkly 979W
Hallock, Lawrence Geoffrey	Los Angeles	Hamilton, William Angus	Mill Valley
(1) 2 Min-2607 Hearst av	Bkly 5913	1 Com-1726 Euclid av	Bkly 6706
Halsey, Homer Ralph	San Rafael	Hamlen, Edmund Dan	Portola
1 LS-2627 Ridge rd	Bkly 2541	¹ 1 LS PreM-2223 Union st	
Halverson, Josephine Helen	Berkeley	Hammers, Herbert Gorham	Newman
1 LS-2339 Blake st		3 LS PreM-1912 Haste st	
Halverson, Laura Adeline	Berkeley	Hammerslough, Alfred Martin	Anaconda, Mont.
1 LS-2339 Blake st		2 Com-2521 Durant av	Bkly 8437
Ham, Charles William	Oakland	Hammond, George P.	Canthers
² 2 Mec-5931 Taft av, O	Pied 8694W	4 LS-1919 Bancroft way	Bkly 6342J
Ham, Inez	McClave, Colo.	Hammond, Hollander Foster	Los Angeles
3 LS-2509 College av	Bkly 7377J	1 LS-2251 College av	Bkly 9107
Hambley, Howard Heldt	San Diego	Hammonds, Muriel Frances	Westley
1 Min-2248 Telegraph av	Bkly 9011	1 LS-2629 Haste st	Bkly 3287
Hamblly, Alvin Sargent	Berkeley	Hammons, Angelus Rosaline	Berkeley
3 LS-2620 Benvenue av	Bkly 7380W	¹ 1 LS-1806 Franklin st	Bkly 9337J
Hamblly, Harry Bishop, Jr.	Berkeley	Hampel, John Stoer	Oakland
¹ 1 LS PreL-2620 Benvenue av	Bkly 7380W	¹ 1 LS-971 Thirty-seventh st, O	Pied 6729
Hamburg, Ralph Morris	Whittier	Hampton, Catherine Maria	Los Angeles
¹ (1) 3 Agr-2501 Ridge rd	Bkly 1335	¹ 1 LS-2627 Hearst av	Bkly 1207
Hamburg, Samuel	San Francisco	Hampton, Earl William	Walnut Grove
4 LS and 1 Juris-1427 Clement st, S F	Pac 931	2 LS PreA-2011 Hearst av	Bkly 8917W
Hamill, James Martin	San Francisco	Hampton, Mabel E.	Live Oak
2 LS PreL-2601 Durant av	Bkly 23	3 LS-2011 Hearst av	Bkly 8917W
Hamilton, Alice Elizabeth	Nampa, Idaho	Hampton, Merrill Lee	Bishop
1 LS-2566 Buena Vista way	Bkly 9583J	¹ 2 LS-1711 Euclid av	Bkly 3378
		Hanawalt, Helen Catherine	McFarland
		1 LS-3023 Colby st	Bkly 2204J
		Hancock, Adah Christine	Piedmont
		1 LS-130 Montecello av, P	Pied 2516W

Hancock, Clarice Marie	Piedmont	Hansen, Stella Elizabeth	Fresno
1 LS-22 Mesa av, P	Pied 4549	*1 LS-1325 Spruce st	Bkly 999W
Hancock, Ellen Jennette	Crescent City	Hanson, Ernest Albin	Los Angeles
*2 LS-2226 Haste st	Bkly 4227W	2 Min-2226 Telegraph av	Bkly 372
Handley, Marietta Jane	Denver, Colo.	*Hanson, George E.	Reedley
*1(1) 4 LS-328 Steiner st, S F		4 LS-1930 Parker st	
Handyside, Alice Florence	Los Angeles	Haraburda, Caesar Wandalin	San Francisco
2 LS-2564 Buena Vista way		*1 Mec-2102 Channing way	Bkly 6279
	Bkly 4307W	Harada, Masa Atsu	Riverside
Haney, Carrie Evelyn	Modesto	8 LS PreM-1739 Euclid av	Bkly 6441
4 LS-2119 Addison st	Bkly 5866J	Harbers, Leland Gerard	Waddington
Haney, Christian William	Forest Hill	1 Com-2418 Dana st	Bkly 8904W
1s Agr-1014 Fifty-first av, O		Harbine, Ella Ruth	Sebastopol
Hanf, Hobart Whittier	San Bernardino	1 LS-2315 Dwight way	Bkly 4026
4 Min-1730 La Loma av	Bkly 8716	Harbinson, Alexander Marshall	Sacramento
Hankla, Josephine	San Diego	8 LS PreL-2625 Hearst av	Bkly 9535
2 Com-2417 LeConte av	Bkly 5650	Hardenbergh, Karl Delbert	Pasadena
Hanley, William Bernard	San Francisco	1 Chem-2285 Chapel st	
2 LS PreL-2610 Durant av	Bkly 7804	Harder, William Ralph	Reedley
Hanlon, E. Berenice	San Francisco	2 LS PreM-2508 Haste st	Bkly 767
4 LS-2804 Fulton st	Bkly 5695J	Hardin, Sam Houston	Alameda
Hann, Anna	Orland	*3 LS-2610 Durant av	Bkly 7804
1 LS-1524 Arch st	Bkly 1421	Harding, Gustav Thayer	San Diego
Henna, Herman Julius	Nashville, Tenn.	1 Com-2634 Bancroft way	Bkly 1276
*4 LS-2625 Hearst av	Bkly 9535	Harding, John Paul	Van Nuys
Hanna, Josephine Lillian	Los Angeles	2 Mec-2334 Derby st	Bkly 5104J
1 LS-19 Alvarado rd	Bkly 6105	Harding, Virgil Seth	Berkeley
Hannaford, Duke Oliver	Sacramento	1 Com-2420 Channing way	Bkly 7404W
2 Com-2617 Durant av	Bkly 822	Hardison, Harvey	Berkeley
Hannah, Oscar Orville	San Francisco	3 Min-2500 Durant av	Bkly 2500
*1 Mec-923 Eddy st, S F	Frkn 6775	Hardison, Ruth Crane	Santa Paula
Hanner, Glen Lester	Sanger	4 LS-1547 Euclid av	Bkly 6681
4 Agr-University Farm, Davis		Hardman, Cecilia	San Francisco
Hanscom, Leroy	Berkeley	4 LS-Hotel Claremont	Bkly 9300
2 Chem-1525 Walnut st	Bkly 479	Hardwick, Perry Emerson	San Francisco
Hansen, Carl Emil	San Francisco	8 LS-229 Steiner st, S F	
3 CE-2616 Virginia st	Bkly 6716	Hardy, Iola	Oakland
Hansen, Charles P.	Oakland	4 LS-5825 Lawton av, O	Pied 1108J
1 Chem-3543 Grove st, O	Pied 8690W	*Hardy, Ruth Alden	San Francisco
Hansen, Earl Bond	San Bernardino	4 LS-2031 Carlton st	
4 Mec-2528 Ridge rd	Bkly 8500	Hare, Arthur Willard	Redding
Hansen, Edna Ruth	Alameda	*1 LS PreM-2426 Bancroft way	
3 LS-1320 Weber st, A	Ala 2091W	Hare, Robert Jerome	Los Angeles
Hansen, Emilie	San Francisco	*1(1) 3 Mec-584 Jean st, O	Pied 3122
3 LS-238 Crocker av, S F	Rand 1343	Harford, Doris Lorene	Berkeley
Hansen, Hans William	Honolulu, T. H.	2 LS-2475 Prince st	Bkly 8386W
1 Agr-2415 Bowditch st	Bkly 8650J	*Hargear, Frank Foli	Berkeley
Hansen, Louis Allen	San Francisco	4 LS-2216 Ward st	Bkly 6119W
4 Com-2647 Dwight way	Bkly 5831	Hargear, William Allan, Jr.	Berkeley
Hansen, Maude Thelma	Ventura	1 LS-2216 Ward st	Bkly 6119W
3 LS-2417 LeConte av	Bkly 5650	Hargrave, Gertrude Adele	Medford, Ore.
Hansen, Ruby Jean	Fortuna	1 Com-2119 Addison st	Bkly 3458W
*3 LS-2417 LeConte av	Bkly 5650	Harker, Albert Wesley	San Francisco
Hansen, R. Sophie	Benicia	1 CE-138 Eleventh av, S F	Pac 4714
*1 Com-Peralta apts, O	Lkad 4768	Harker, Edgar Louvan	Oakland
		*1(1) 3 Chem-1010 Sixtieth st, O	
		Harlan, Helen	Woodland
		4 LS-2417 LeConte av	Bkly 5650

Harlan, Joseph Ludwell, Jr.	Woodland	Harris, Marion Reineohl	Massillon, Ohio
4 Agr-University Farm, Davis		1 Agr-1813 Bonita av	Bkly 2929J
Harms, Justine	Los Angeles	Harris, Myron Russell	Pasadena
¹ (1) 4 LS-2744 Fulton st		4 Agr-2605 Durant av	Bkly 6981
Harp, Adrian Vann	Fresno	Harris, Olga Eleanor	Modesto
3 LS-2059 University av	Bkly 7518	¹ 1 LS-2500 Bancroft way	Bkly 1848
Harper, Ellen Mae	Ione	Harris, Philip John	Danville
3 LS-2680 College av	Bkly 7059J	2 LS PreM-2007 West st, O	Oakd 2622
Harper, Henry	Los Angeles	Harris, Robert Vernon	Los Angeles
4s LS-Hotel Whitecotton	Bkly 7300	1 LS-2601 Channing way	Bkly 5904
*Harper, Jessie Anne	Los Angeles	Harris, Ruth S.	Oroville
4 LS-2420 College av	Bkly 906J	² 2 LS-2510 LeConte av	
Harper, Lawrence Averell	Oakland	Harris, Thomas West, Jr.	Berkeley
2 LS PreL-283 Park View ter, O		1 LS-2935 Elmwood court	Bkly 6977W
	Oakd 8661	Harris, William L.	Etna Mills
Harpham, Dorothy	Redlands	3 Com-2008 Prince st	Bkly 2844
4 LS-Treehaven apts	Bkly 8129W	Harrison, Agnes Emily	San Francisco
Harrell, Clara Morton	Pasadena	2 LS-2723 Durant av	Bkly 9581
4 LS-2226 Chapel st	Bkly 879	Harrison, Alfred Benjamin	Los Angeles
Harrell, Eloise Elison	Atlanta, Ga.	1 Com-Hotel Whitecotton	Bkly 7800
² 1s LS-2039 Shattuck av	Bkly 4929	Harrison, Gilbert Henry	Denver, Colo.
Harrell, John Frank	Oakland	1 Mec-1602 Walnut av	
1 LS PreL-4220 Montgomery av, O		Harrison, Harry Herman	Bloomington
Harrell, Royal Luten	San Francisco	¹ (1) 2 Chem-854 Athens av, O	
¹ 1 Agr-1285 Washington st, S F			Lksd 2188
	Frkn 6727	Harrison, Helen Elizabeth	Rockford, Ill.
Harrier, Lewis Gregory	Oakland	(1) 8 LS-2627 Hearst av	Bkly 8229
⁴ 4 LS and 1 Juris-6457 Benvenue av, O		Harrison, Portia Louise	Sonoma
	Pied 8192	1 LS-2015 Hearst av	
Harrington, Dorothy Valentine	Monterey	Harrison, Woodford Francis	Vacaville
¹ 1 LS-2524 LeConte av	Bkly 2581	2 Chem-2208 Atherton st	Bkly 9868R
Harrington, Gertrude Frances	Berkeley	Harriss, Harold Herbert	Oakland
2 LS-2831 Blake st	Bkly 3577W	2 LS PreA-2827 LeConte av	Bkly 8978
Harrington, Mary Lucile	Sioux City, Iowa	Harroun, Jessie Maude	Salt Lake City, Utah
4 LS-2429 Channing way	Bkly 4648	¹ (1) 8 LS-2221 Atherton st	
Harrington, Phyllis M.	Los Angeles	Harroun, Mary Josephine	San Francisco
4 LS-2328 Grove st	Bkly 6989W	2 LS-1531 Scenic av	Bkly 8444W
Harrington, Ralph Irving	Petaluma	Harsha, Ruth E.	San Diego
¹ 1 LS-2017 Grant st	Bkly 7945W	⁴ 4 LS-2241 Durant av	Bkly 1112W
Harrington, Scott Boarman	Berkeley	Hart, Charles Edwin	San Francisco
3 Agr-University Farm, Davis		¹ 1 LS PreM-897 Clayton st, S F	
Harris, Betty Marcella	San Francisco		Park 3185
1 LS-1640 Josephine st	Bkly 9022W	Hart, Irma Levis	Portland, Ore.
Harris, Clive	Berkeley	2 LS-2420 College av	Bkly 906J
² (1) 3 LS-2704 Virginia st		Hart, Newell Cadien	Alameda
Harris, Donna	Ione	¹ 1 LS-772 Santa Clara av, A	Ala 2032W
1 LS-1747 Walnut st	Bkly 1009W	Hartdegen, Cora Agnes	Twin Falls, Ida.
Harris, Evelyn Julia	San Francisco	1 Com-2515 LeConte av	
¹ 1s LS-2412 Durant av		Harter, Robert Lawrence	Berkeley
Harris, Helen Estelle	Los Angeles	4 Min-2610 Durant av	Bkly 7804
1 LS-2019 Webster st, O	Lksd 4683	Harter, Ruth	Yuba City
Harris, Irene	Alturas	¹ 1 LS-2633 Etna st	Bkly 4066
2 LS-2511 Durant av	Bkly 1762W	Hartigan, Lenore Klinefelter	Berkeley
Harris, Marion	Ione	² 2 LS-1858s Scenic av	Bkly 2099W
4 LS-1747 Walnut st	Bkly 1009W		

- Hartigan, Leonard Wheeler Manila, P. I.
 *1 LS PreL-1858s Scenic av Bkly 2099W
- Hartley, Mabel Clara Medford, Ore.
 1 LS-2119 Addison st Bkly 3458W
- Hartwell, Ruth Sarah Santa Barbara
 2 Agr-2542 Durant av Bkly 1846
- Hartz, Esther Margaret Davenport, Iowa
 2 LS-2538 Channing way Bkly 5972
- Hartzell, Lucie Elois Los Angeles
 *1 LS-2623 Channing way Bkly 6928J
- Harvey, Christine Mabel San Jose
 *1 (1) 4 LS-2524 Dwight way Bkly 3789J
- Harvey, Joseph Balentine San Francisco
 3 LS-2620 Bancroft way Bkly 8970
- Hurvey, Stanley Bevan Long Beach
 4 LS-2625 Hearst av Bkly 95:5
- Hascal, Ruth Mare Island
 2 LS-2627 Hearst av Bkly 4009
- Hasegawa, Akira San Francisco
 2 Mec-1739 Euclid av Bkly 6441
- Hashimoto, Hidetoshi Aibin San Francisco
 1 LS-2410 Fulton st
- Haskell, Alfred Francis Porterville
 *1 CE-Glengary apts Bkly 4063
- Haskell, Thurlow Ainsworth Petaluma
 2 Com-1640 Euclid av Bkly 7057
- Haskin, Loren Fletcher Pomona
 1 LS-2647 Durant av Bkly 192
- *Hass, Andrew Thomas Oakland
 4 LS PreA-929 Lake Shore av, O
- Haselback, Roy Oakd 7506
 *2 LS-2610 Durant av Fresno Bkly 7804
- Hasselo, Lorraine Pasadena
 (1) 2 LS-2429 Channing way Bkly 4643
- Hasselo, Raemore Pasadena
 1s Agr-2332 College av Bkly 1134
- Hastings, Andrew Stanley Oakland
 3 LS PreL-2717 Haste st Bkly 586
- Hastings, Ethel A. Wendell, Ia.
 (1) 3 LS-2400 Piedmont av Bkly 5224
- Hatch, Augusta Wallis Berkeley
 2 LS-1836 Francisco st Bkly 1868J
- Hatch, Lois Elizabeth Lodi
 1 LS-2823 Cherry st Bkly 8595J
- Hatch, Polly R. Modesto
 2 LS-2112 Durant av Bkly 7751W
- Hatfield, Hazel May Madison, Wis.
 (1) 3 LS-2335 Warring st Bkly 6744
- Hatfield, John Glover Berkeley
 2 Com-2633 LeConte av Bkly 2802
- Hatfield, Robert Miller Berkeley
 1 Mec-2633 LeConte av Bkly 2802
- Hauch, Eugenia Agnes Alameda
 3 LS-2071 San Antonio av, A Ala 218
- Hauch, Henry Gregory Centerville
 2 Mec-2301 Ward st Bkly 7879W
- Haun, Ralph Edwin Glendale
 *1 CE-2431 Dana st Bkly 547W
- Hauser, Allan Berkeley
 4 LS and 1 Juris-2230 Fulton st
- Haven, Van Allen Berkeley
 2 LS-2330 Telegraph av Bkly 9227
- Havener, Ethel Wilson Berkeley
 2 Med-2318 Telegraph av Bkly 5964
- Havens, John Weston, Jr. Berkeley
 1 LS-2631 Benvenue av Bkly 8141
- Haviland, Carlton Andrew Berkeley
 2 Agr-910 Oxford st Bkly 6338
- *Havill, Evelyn Mildred Berkeley
 4 LS-1736 Twenty-third av, O
 Fri 2185W
- Haw, Mary San Jose
 4 LS-2327 Bancroft way Bkly 1061W
- Hawes, Ben F Centerville
 (1) 2 Com-2406 Dana st Bkly 7713
- Hawes, Rollin Boardman Oakland
 1 Mec-564 Sixty-second st, O
 Pied 3726W
- Hawes, Thomas Woodson Lodi
 2 Com-2401 Durant av Bkly 6504
- Hawkins, Cecil Jerome Berkeley
 3 LS PreM-2029 Thirteenth av, O
 Mer 3080
- Hawkins, Edmund Lester Oakland
 1 LS PreL-4078 Piedmont av, O
- Hawkins, Hazel Katherine Albuquerque, N. M.
 4 LS-2520 Durant av Bkly 1675
- Hawkins, James Thomas El Paso, Tex.
 4 Min-2717 Hearst av Bkly 5770
- Hawkins, Tennie Lodi
 4 LS-2500 Durant av
- Hawkins, William John Portland, Ore.
 1 LS-2713 Haste st Bkly 78
- Hawkinson, Wendell Louise Bristol, S. D.
 4 LS-1921 University av
- Hayden, Charles Thomas Oakland
 2 LS PreM-9316 Sunnyside st, O
 Ems 642
- Hayden, Richard Lee Oakland
 2 LS PreL-250 Grand av, O Lodi 3336
- Hayes, Carroll Victor Kings, Ill.
 2 Chem-2008 Cedar st
- Hayes, Ethel Margaret Butte, Mont.
 (1) 3 LS-2624 Virginia st Bkly 3663
- Hayes, George Albert Merced
 1 LS-1727 Sonoma av Bkly 2068W
- Hayes, Gordon Bruce Saratoga
 1 LS-2001 Allston way Bkly 6710
- Hayes, Ramona Margaret San Francisco
 *3 LS PreM-2520 Durant av Bkly 1675
- Hayfer, Paul San Francisco
 2 LS PreM-808 Dolores st, S F
 Man 6561
- Hayford, Charlotte Berkeley
 *1 LS-2433 Ward st Bkly 2251W

Haymond, Scott Coy	Pasadena	Heathman, Walter William	Pomona
8 LS PreA-2228 Dana st	Bkly 1058J	(1) 2 Min-1730 La Loma av	Bkly 8716
Haynes, Brownie Lee	Rupert, Idaho	Heaton, Constance Daphne	Paso Robles
¹ (1) 3 LS-2223 Union st		¹ 1 LS-2214 Carlton st	
Haynes, Camille Nesbit	Berkeley	Heaton, Lenore Grace	Paso Robles
1 LS-2430 College av	Bkly 1144J	1 LS-2439 Woolsey st	Bkly 8079W
Haynes, Evan	Berkeley	Heaton, Norris Paul	Paso Robles
³ 3 LS-918 Mono st	Bkly 1184J	1 Com-2439 Woolsey st	Bkly 8079W
Haynes, Harold Douglas	Berkeley	Heffernan, Carmelita	Stockton
3 Min-2101 Telegraph av, O	Lksd 1700	2 LS-2721 Haste st	Bkly 8800
Haynes, Jesse Emory	Riverdale	Hegerhorsh, Melvin John	San Francisco
¹ 1 LS PreM-2247 Bancroft way		1 Chem-899 Elizabeth st, S F	
Hays, Loverne Alice	Clovis		Valen 5687
4 LS-1632 Spruce st	Bkly 570J	Hegerty, Anne Elizabeth	Berkeley
Hays, Marguerite Orah	Fullerton	3 Com-2210 Russell st	Bkly 8607W
3 LS-2749 Dwight way	Bkly 6444	*Heggie, Gabrielle Marguerite	Sonoma
Hays, Marvin Perry	Berkeley	4 LS-2530 Ridge rd	Bkly 7084W
2 LS-1503 Virginia st	Bkly 5928W	Heid, Carlotta	Alameda
Hays, Mary Emily	Oakland	2 LS-1239 Bay st, A	Ala 682J
2 LS-719 Fifty-fourth st, O		Heidekker, Eskild Harold	Berkeley
Hays, Mildred Esther	Watsonville	¹ 1 Agr-2228 Ward st	
3 LS-1818 Hearst av	Bkly 1870J	Heidt, Ruth Frances	Alameda
Hays, Pearl Leon	Clovis	2 LS-2725 Channing way	Bkly 7950
1 LS-1632 Spruce st	Bkly 570J	Heilmann, John Sherman	San Francisco
Hays, Ruth Irma	Watsonville	² 2 LS-2032 Kittredge st	Bkly 6830J
4 LS-1818 Hearst av	Bkly 1870J	Heinrici, Husted	Eureka
Hazen, John Wesley	Coalinga	2 Mec-2333 College av	Bkly 1722
² 1 Mec-2327 Valley st	Bkly 8751J	Heise, Hilda May	Gardnerville, Nev.
Hazlett, Elizabeth	San Francisco	3 LS-2524 LeConte av	Bkly 2531
2 LS-1740 Bryant st, S F	Mrkt 4348	Heitmann, Ruth	Kreitania, Norway
Hazlett, George Alex	San Francisco	² (1) 3 LS-2330 College av	Bkly 1803
1 LS-1740 Bryant st, S F	Mrkt 4348	Heitmeyer, Fred A.	Santa Cruz
Hazzard, Clara Swigert	Washington, D. C.	2 Min-2614 Dwight way	Bkly 5988
1 LS-Glengary apts	Bkly 7759	Heitsmith, William Jennings	Santa Rosa
Hazzard, Oliver P. M.	Washington, D. C.	² 2 Mec-2213 Bancroft way	Bkly 1238W
1 LS-Glengary apts	Bkly 7759	Helbach, Merle Raymond	San Francisco
Head, Adrian Frederick	Hollywood	1 Agr-3176 Twenty-fourth st, S F	
1 LS-2713 Haste st	Bkly 78		Man 1168
Head, Helen Belle	San Francisco	Helbok, Gladys	Portland, Ore.
¹ 1 LS-Hotel Whitecotton	Bkly 7800	¹ 1 LS-2400 Haste st	Bkly 4596
Healey, Ettie Miriam	Madera	Helbok, Irma Frances	Portland, Ore.
3 LS-1701 Dwight way		1 LS-2416 College av	Bkly 8476J
Healey, Marie Claire	San Francisco	Held, Edward Frank	San Francisco
1 LS-2269 Filbert st, S F		¹ 1 Com-3751 Army st, S F	Man 1932
Healy, Agnes Mary	East Oakland	Helper, Viola	Oakland
1 Com-1937 Eleventh av, O	Mer 3566	1 LS-590 Thirty-seventh st, O	
Healy, Myrtle Bernice	Oakland		Pied 962W
2 LS-5101 Foothill blvd, O	Frvl 887	Helfman, Miriam	Detroit, Mich.
Heap, Leslie Leon	San Bernardino	1 LS-2627 Hearst av	Bkly 3229
¹ 1 LS PreL-2630 Channing way		Helland, Gynith Claire Spring	Grove, Minn.
	Bkly 2761W	1 LS-2608 Benvenue av	
Heard, Bartlett Bradford	Phoenix, Ariz.	Helland, Virginia Grace	Spring Grove, Minn.
2 LS-2426 Virginia st	Bkly 564	1 LS-2608 Benvenue av	
Heard, John W.	Bakersfield		Pasadena
3 LS-Hotel Whitecotton	Bkly 7800	(1) 2 LS-2717 Hearst av	Bkly 5770
Heath, Erle	Tehachapi	Heller, Edward H.	San Francisco
¹ 1 LS-2647 Dwight way	Bkly 5881	4 LS-Treehaven apts	
Heathcote, James Gerard	Hanford	Hellman, Frederick Jacobi	San Francisco
² (1) 8 Com-2336 College av	Bkly 2431	2 LS-2527 LeConte av	Bkly 1608J

Hellman, Isaias Warren, III	San Francisco	Henning, Virginia Margaret	Berkeley
4 LS-2527 LeConte av	Bkly 1608J	2 LS-2309 Eunice st	Bkly 8424J
Hellman, S. Jack	Los Angeles	Henny, George Christian	Newcastle
2 LS-2304 Telegraph av	Bkly 3428	1 Mec-2214 Union st	Bkly 2483
Hellwig, Eloise Edyth	Mt. Eden	Henrici, Mignon Keith	Alameda
'2 LS-2721 Channing way	Bkly 808	3 LS-2725 Channing way	Bkly 7950
Helm, Bernice C.	Alameda	Henriques, Hilary Joseph	Pleasanton
'1 LS-3335 Fernside blvd, A	Ala 264	1 Chem-2124 Kittredge st	Bkly 1229J
Helm, Gertrude Elizabeth	La Jolla	Henry, Collice	San Luis Obispo
'2 LS-Euclid apts	Bkly 7521W	3 LS-2227 Chapel st	
Helmer, Margueritte Gertrude	Berkeley	Henry, Frank Russell	Los Angeles
'1 LS-2486 Shattuck av	Bkly 5753	1 Chem-2203 Atherton st	Bkly 9368E
Helmerich, Edna Emile Great	Falla, Mont.	Henry, Gerrit Van S.	Oakland
1 LS-2228 Chapel st	Bkly 4558	1 Com-2121 Webster st, O	Oakd 5396
Helt, Henry C.	Berkeley	Henry, Martha Beatrice	Del Rio, Texas
2 Agr-2728 Channing way	Bkly 1286	2 LS-2722 Bancroft way	Bkly 1278
Hemmerling, Walter	Anahelm	Henry, Roy Porter	San Francisco
4 LS-2516 Bancroft way	Bkly 2277J	1 Chem-3876 Twenty-fifth st, S F	
Hemphill, Lawrence Findley	Paso Robles	Henry, William Joseph	San Francisco
1 Mec-2231 Dana st	Bkly 1061	'1 Mec-554 Eleventh av, S F	Pac 3608
Henderson, Clifford Farley	Berkeley	Henshall, William Burrows	San Francisco
3 LS-2615 Russell st	Bkly 1832J	1 LS-1267 Pine st, S F	Frkn 3925
Henderson, Dorothy Day	Berkeley	Hensley, Fred Carter	San Francisco
3 LS-2810 Oak Knoll ter	Bkly 1065W	2 Mec-125 Scenic av, San Anselmo	
Henderson, Dorothy Steen	Oakland	Hepburn, Violet L.	San Francisco
2 LS-138 Moss av, O	Pied 275J	2 LS PreL-219 Clayton st, S F	
Henderson, Henry Gustav	San Dimas		Pac 1461
(1) 3 LS-2425 Bancroft way	Bkly 1743	Heppner, Myer	San Francisco
Henderson, Herbert Kempkey	Oakland	3 Agr-University Farm, Davis	
2 Agr-198 Mountain av, P	Pied 269	Herbabe, Alonzo Clarke	Porterville
Henderson, James Everett	Berkeley	1 LS-2070 University av	
1 Com-2810 Oak Knoll ter	Bkly 1065W	Herbert, Georgia Jennings	Berkeley
Henderson, Lewis Homer	Kelseyville	3 LS-2238 Ellsworth st	Bkly 4230
3 Agr-2332 College av	Bkly 1134	Herbert, Mary Lynette	Penryn
Henderson, Marian Bernice	Piedmont	2 LS-2749 Dwight way	Bkly 6444
'1 LS-224 Mountain av, P	Pied 269	Herde, Mary Cornelia	Riverside
Henderson, Rita Barnard	Long Beach	(1) 3 LS-1547 Euclid av	Bkly 6681
4 LS-2710 Channing way	Bkly 9520	Heringer, Lawrence William	Sacramento
Henderson, Thomas Pearson	Sacramento	4 LS-2501 Ridge rd	Bkly 1335
3 LS PreM-2529 Hearst av	Bkly 40	Herkner, Clarence Gustave	San Diego
Hendricks, William McPherson	Los Angeles	3 Mec-1509 Arch st	Bkly 8336J
(1) 2 Min-2412 Piedmont av	Bkly 5098	Herkomer, John Anthony	Auburn
Hendrickson, David	Los Angeles	1 LS-2904 Florence st	
3s LS-2611 Durant av	Bkly 4525W	Herman, Adolph Emerson	Los Angeles
Hendrixson, Donald George	Chino	'3 Chem-2070 University av	Bkly 5352
3 LS and 1 Juris-1811 Hearst av		Herman, Arthur Moore	Riverside
	Bkly 3526W	'1 Agr-2239 Dwight way	
Hendrixson, Ocran Otis	Chino	Herman, Bernice Lucile	Los Angeles
2 LS PreM-1811 Hearst av	Bkly 3526W	4 LS-2162 Vine st	Bkly 4868
Hennessey, Thomas Edward	Berkeley	Herman Edith Mignon	Stockton
(1) 3 LS-2500 Bancroft way	Bkly 1848	'1 LS-2248 Blake st	
Hennesy, Elizabeth Mary	Hollywood	Herman, Fred Weld	San Jose
'(1) 2 LS-Euclid apts		3 Mec-Campus Cottage No. 3	Bkly 3489J
Henning, Berthel Henry	Sebastopol	Herman, Rita	Flagstaff, Arizona
3 LS PreM-2325 Dana st	Bkly 8383W	1 LS-1621 Scenic av	Bkly 5102

- Herman, Samuel Willard Oakland
2 LS PreM-1020 Brush st, O Lksd 578
- Herman, Sarah Flagstaff, Arizona
*(1) 3 LS-1621 Scenic av Bkly 5102
- Hermle, Otto Barnes Oakland
2 Agr-8418 Maine st, O Frvl 824W
- Hermle, William Adrian Oakland
2 LS-2501 Ridge rd Bkly 1835
- Hernan, Kathryn Maurine San Francisco
2 LS-2262 Green st, S F West 7127
- Heron, Ernest A. Oakland
2 LS-2522 Ridge rd Bkly 5950
- Herrerias, J. Baldomero Los Angeles
*2 Min-2617 Durant av Bkly 822
- Herrick, Marion Amy Pasadena
(1) 2 LS-1939 Hearst av
- Herriman, Bonita Los Angeles
1 Com-2627 Hearst av Bkly 4009
- Herrman, Walter Joseph Hayward
2 Mec-2639 Ashby av Bkly 2168
- Herron, Eugenia Lucille Santa Maria
1 LS-2420 College av
- Hersch, Walter William August Watsonville
4 LS-2428 Dwight way Bkly 4224W
- Hert, Julia Ernestine Colton
*2 LS-2627 Hearst av
- Hess, Blanche Riverside
4 LS-2511 Virginia st Bkly 2094J
- Hess, Dorothy May San Francisco
8 LS-625 Ashbury st, S F Park 1646
- Hess, Elwood Vernon Lindsay
1 LS-2614 Dwight way
- Hesse, Alice Esther Lower Lake
2 LS-2227 Parker st Bkly 9252W
- Hesse, Frances Matilda Boulder Creek
2 LS-2608 Warring st Bkly 1267J
- Hesselberg, Abe Loeffler Berkeley
2 Chem-2642 Bancroft way Bkly 653
- Heaser, Charlotte Bernice East Auburn
1 LS-2236 Summer st Bkly 942
- *Hester, Melville Anderson Santa Barbara
4 LS-2646 Dwight way Bkly 4104
- Hestorff, Percy Clarence Salinas
4 LS-2616 Virginia st Bkly 6716
- Hestwood, Ruth Ellen San Jose
(1) 8 LS-2400 Bancroft way Bkly 6488J
- Hettich, Claire Marie San Francisco
1 LS-454 Page st, S F Park 8872
- Hettrich, John Fayette San Rafael
1 LS-1111 Pine st, S F Frkn 1100
- Hewald, Elvera Louise San Francisco
*1 LS-326 Hayes st, S F Mrkt 9191
- Hewitt, Fred Lester San Francisco
1a Com-2520 Durant av Bkly 1675
- Hewitt, Loyd Elbert Yuba City
3 LS PreL-2833 College av Bkly 1722
- Hewitt, Wallace William Stockton
4 Agr-University Farm, Davis
- Hewitt, William Arthur Oakland
*1 LS-Oxford apts
- Hibberd, Edith Lydia San Francisco
*1 LS-707 Twenty-first av, S F Pac 3585
- Hibbett, George Gibson San Francisco
1 LS PreM-2231 Nineteenth av, S F Snt 3655
- Hickey, Henry Benjamin, Jr. Oakland
2 Com-260 Lee st, O Oakd 7632
- Hickman, George W. Logan, Utah
(1) 3 LS PreL-2239 Dwight way
- Hickok, Rex R. Dos Palos
*1 Agr-2500 College av Bkly 5942
- Hicks, Anna Knudsen Santa Barbara
4 LS-2530 Ridge rd Bkly 7084
- Hicks, Florens Artil Sacramento
1 LS-2519 Ellsworth st Bkly 995J
- Hicks, Frances Fern Berkeley
3 LS-2311 Piedmont av Bkly 2841
- Hicks, Hervey Crandall Berkeley
3 LS-2602 Piedmont av Bkly 4529W
- Hicks, William Owens Berkeley
1 Mec-2214 Derby st Bkly 1889W
- Hidden, Elwood Trenholm San Francisco
1 CE-1848 Arguello blvd, S F Snt 1455
- Hieronymus, Arthur Shirmer Alameda
1 CE-2506 San Jose av, A Ala 3715W
- Higbie, Evalene Mary Gonzales
1 LS-4126 Redding st, O
- Highby, Carol Ruth Alameda
*3 LS-1510 Grant st, A Ala 2637
- Higgins, Ernest Stout Berkeley
(1) 3 LS-195 Santa Clara av, O
- Higgins, Ethel Auburn Pittsburgh, Pa.
1a LS and 1 Juris-2240 Telegraph av
- Higgins, Evelyn May Berkeley
1 LS-1523 Walnut st Bkly 5510J
- Higgins, Mae Frances Oakland
*1 LS-1202 Peralta st, O
- Higgins, Marjory May Burlington, Iowa
3 LS-2520 Virginia st Bkly 7247
- High, Vera Bernice Modesto
1 Com-2334 Bowditch st Bkly 1358W
- Hight, Edith May Berkeley
3 LS-1822 Felton st Pied 2325J
- Higley, Mary Eather Delano
3 LS-2113 Rose st Bkly 7984W
- Higley, Paul Lloyd Delano
*1 Agr-2113 Rose st
- Higley, Ruth Viola Delano
1 LS-2113 Rose st Bkly 7985W
- Higson, John Wayne Pocatello, Idaho
4 LS-2501 Ridge rd Bkly 1335
- Hilbourn, Stanley Webber Oakland
*1 Chem-1849 Eighth av, O Mer 2545
- Hildebrand, Clifton Carl Oakland
3 LS PreL-2261 Shattuck av Bkly 7029
- Hilderbrand, Esther Daloris Laton
2 LS-Oxford apts Bkly 9328W
- Hildreth, Howard Martin Phoenix, Ariz.
*1 LS PreM-2529 College av

- Hilfiker, Ruth Susan Eureka
(1) 2 LS-Oxford apts Bkly 2385W
- *Hill, Alexander Blake, Jr. Petaluma
4 LS PreL-2607 Hearst av Bkly 5913
- Hill, Andrew P. San Francisco
21 LS-1062 Page st, S F Park 1152
- Hill, Byron Arthur Barstow
21 CE-2511 Regent st
- Hill, Charles Ray Berkeley
21(1) 2 Com-2618 Fulton st Bkly 2028W
- Hill, Dorothea Mary Eureka
2 LS-2417 LeConte av Bkly 5650
- Hill, Dorothy Amelia San Francisco
2 LS-60 Pearl st, S F Mrkt 7461
- Hill, Edwin Forest Los Angeles
2 LS-1726 Euclid av Bkly 6706
- Hill, Elsie Santa Barbara
3 LS-2799 Piedmont av Bkly 2877
- Hill, Esther Kansas City, Mo.
21 LS-2420 S Atherton st
- Hill, Fern Eaton Orange
2(1) 3 Com-945 Arlington av Bkly 8775W
- Hill, Helen Elizabeth Oakland
3 LS-1423 Madison st, O Oakd 1606
- Hill, Hilda Huntington Beach
4 LS-2721 Channing way Bkly 808
- Hill, Hubert William Susanville
23 Com-2647 Durant av Bkly 102
- Hill, Isabella Hoyt Berkeley
21 LS-2119 1/2 Russell st Bkly 4738W
- Hill, Jaime Damion Davis
2(1) 2s Agr-2117 Center st
- Hill, Mabel Eva Barstow
1 LS-2517 Benvenue av Bkly 3142W
- Hill, Mary Margaret Santa Monica
22 LS-2500 Durant av Bkly 5404J
- Hill, Robert Ashley Berkeley
2 Agr-2310 LeConte av Bkly 1800
- Hill, Rollin Cyril Lindsay
(1) 4 LS-2203 Atherton st Bkly 9368R
- Hill, Ruby Mae Riverside
3 LS-1547 Euclid av Bkly 6681
- Hill, Walter Herbert Trafford Los Angeles
3 Com-2607 Hearst av Bkly 5913
- Hille, Helen Amelia National City
(1) 2 LS-2629 Haste st Bkly 3287
- *Hillerman, Pauline Marion San Diego
4 LS-472 Jean st, O Oakd 4433
- Hillerman, Ruth Oakland
3 LS-472 Jean st, O Oakd 4433
- Hilliker, Katherine B. Los Angeles
(1) 2 LS-2211A Telegraph av
- Hillman, Arthur Clarence Santa Barbara
3 Min-2717 Hearst av Bkly 5770
- Hillman, Jessie Jane Pomona
(1) 4 LS-159 Lake st, O
- Hillman, William Frederick Berkeley
3 LS PreL-Hotel Whitecotton Bkly 7300
- Hills, Margaret Elizabeth Santa Monica
3 LS-1623 La Loma av Bkly 8405J
- Hills, Martha Muriel Santa Monica
3 LS-1623 La Loma av Bkly 8405J
- Hilson, Robert Edwin Martinez
3 LS and 1 Juris-2529 Ellsworth st Bkly 6886
- Hilton, Bessie Louise Kansas City, Mo.
21s LS-2416 College av Bkly 8427J
- Hilton, Elton Monroe Oakland
22 Agr-1725 Thirteenth av, O Mer 1152
- Himbert, Arthur Benicia
3 Com-2037 Francisco st Bkly 6839J
- Himbert, Emma Marjorie Berkeley
1 LS-2037 Francisco st Bkly 6839J
- Hinchman, Viola Mary Santa Barbara
2(1) 2 LS-2400 Bancroft way Bkly 6488J
- Hindea, Ellen Brooks San Francisco
23 LS-2725 Channing way Bkly 7950
- Hine, George Tilton Berkeley
24 LS-2333 Channing way Bkly 8338
- Hines, Fulmer W. Los Angeles
1 LS PreL-2251 College av Bkly 9107
- Hinman, Henry Hyland Oakland
1 LS-2620 Bancroft way Bkly 8870
- Hinsdale, George Spencer Hollywood
4 CE-2601 Durant av Bkly 23
- Hinsdale, Oscar Howard Berkeley
1 LS-3029 Benvenue av Bkly 9002J
- Hironymous, Carlton Jesse Fairfield
2 Min-2701 Hearst av Bkly 2421
- Hirsch, Sylvia San Francisco
1 LS-2228 Chapel st Bkly 4458
- Hirschfeld, Lloyd David San Francisco
2 Chem-2436 Durant av Bkly 6653W
- Hirschler, Carolyn Hart San Francisco
3 LS-Trecheven apts Bkly 4655J
- Hirshland, Roy P. San Francisco
23 LS PreM-2418 Dana st
- Hirst, Penrose Wiley Modesto
2 Chem-2508 Haste st Bkly 767
- Hiscox, Mervil Berkeley
4 LS-81 Plaza dr Bkly 485W
- Hiscox, Richard Griest Berkeley
3 Agr-81 Plaza dr Bkly 485W
- Hitchcock, Frances Alameda
1 LS-1617 Alameda av, A Ala 176
- Hitchcock, Katherine Mabelle Berkeley
(1) 2 LS-1631 Euclid av Bkly 9035W
- Hitchings, Ralph Baker Watsonville
1 Mec-2200 Dwight way
- Hitzeroth, Lorenz Charles San Francisco
3 Mec-1900 Bonita av Bkly 996W
- Hixson, Raymond Floyd La Verne
1 Agr-2425 Hilgard av Bkly 522W
- Hjelte, Grace Violet Oakland
2(1) 2 LS-597 Fairmont av, O Pied 3043W

Hjelte, Marshall	Oakland	Hoey, James Francis	Martinez
2s Agr-597 Fairmount av, O	Pied 3043W	1s LS and 1 Juris-Martinez	Martinez 105J
Hoag, Attai Susanna	Oakland	Hoffman, Emmett Carl	Berkeley
*1 LS-1076 Tenth st, O	Oakd 3782	*1 Mec-1730 La Loma av	Bkly 8716
Hoar, Henry Charles	San Diego	Hoffman, Harold Haynes	Pacific Grove
2 Chem-2512 Benvenue av	Bkly 8660	1s Com-2214 Union st	Bkly 2483
Hobart, Helen Elizabeth	Sacramento	Hoffman, Helen	Long Beach
4 LS-427 Twenty-ninth st, O	Oakd 1890	(1) 3 LS-2520 Durant av	Bkly 1675
Hobbs, Bernadine	Walla Walla, Wn.	Hoffman, Helene Josephine	Carpinteria
*1 LS-2616 Etna st		2 LS-2519 Hillegass av	Bkly 477
Hobert, Jess John	Oakland	Hoffman, Ruth Auguste	San Francisco
2 Com-5562 Taft av, O	Pied 6147W	*1 LS-822 Lake st, S F	Pac 4891
Hobert, Mabel Henrietta	Oakland	Hoffman, Thelma	Byron
4 LS-5562 Taft av, O	Pied 6147W	1 Chem-2536 Bancroft way	Bkly 7997
Hobron, Samuel Harris, Jr.	Oakland	*Hoffman, Walter	Steger
*1 LS PreM-1222 Magnolia st, O	Oakd 3156	4 LS PreL-2401 Durant av	Bkly 6504
Hobson, Harold Benjamin	Berkeley	Hoffmann, Rowena Dishman	Los Angeles
2 Com-1913 Francisco st	Bkly 3542	4 LS-2511 Virginia st	Bkly 2094J
Hockett, Claude Graham	North Bend, Ore.	Hogan, Edward William	Oakland
*1 LS-1837 Berryman st	Bkly 1627	2 LS-344 Sixty-second st, O	Pied 4894
Hocking, Genevieve Mary	Honolulu, T. H.	Hogan, Ellen Ursula	Grass Valley
(1) 2s LS-2401 LeConte av	Bkly 1856J	*2 LS-306 Waller st, S F	
Hodapp, Frank Antone	Oakland	Hogan, Ora May	Santa Monica
*1 LS-452 Elwood av, O	Oakd 7327	3 LS and 1 Juris-2624 Virginia st	Bkly 8663
Hodapp, Shelby Eugene	Oakland	Hogshead, Jack	Covelo
*1 LS-2717 Hearst st	Bkly 5770	1 LS PreL-2411 Virginia st	Bkly 7205W
Hodel, Clifford George	Bakersfield	Hohenthal, Helen Alma	Turlock
*1 Agr-2249 Fulton st	Bkly 3583	*3 LS-2304 Dwight way	Bkly 547W
Hodges, Joel Brower	Los Angeles	Hoisholt, Frederica	Napa
4 CE-2240 Telegraph av	Bkly 1249	4 LS-2418 College av	Bkly 4440
Hodges, Russell Virgil	Turlock	Hoit, Reginald Kelvin	Sacramento
3 Agr-2617 Durant av	Bkly 822	2 LS-2501 Ridge rd	Bkly 1335
Hodgkinson, Norman Bateman	Long Beach	Holbrook, Blanche	Logansport, Ind.
2 CE-2605 Durant av	Bkly 6981	1s Com-1524 Arch st	Bkly 1421
Hodgson, Charles Edington	Fresno	Holcomb, Logan Stewart	Banning
2 LS PreL-2246 Fulton st		3 Agr-2345 College av	Bkly 62
Hodgson, Frank Rice	Fresno	Holcomb, William Frederick	San Diego
2 Agr-2162 Vine st	Bkly 4868	2 Med-1367 Third av, S F	
*Hodgson, Pauline	San Francisco	Holcombe, William Edward	Oakland
4 LS-903 Pine st, S F	Frkn 54	4 LS-1138 Bella Vista av, O	Mer 1464
Hodgson, Zelma	Berkeley	Holden, Geraldene	Idaho Falls, Idaho
*3 LS-2162 Vine st	Bkly 4868	3 LS-2500 Durant av	Bkly 5517W
Hodkinson, Mary Elizabeth	Oakland	Holden, Harriette	Berkeley
*1 LS-6616 Chabot rd, O	Pied 7638W	2 LS-2500 Durant av	Bkly 5517W
Hoefler, Helen Dorothy	Fresno	Holder, Dee	Anaheim
*1 LS-2400 Bancroft way	Bkly 6488J	1 LS-2420 College av	Bkly 906J
Hoegemann, Bernard	Oakland	Holdridge, Bernadine Ruth	San Francisco
3 Com-2412 Piedmont av	Bkly 5098	*1 LS-1266 Sixteenth av, S F	Snst 57
Hoen, Martin Lewis	Alameda	Holdsworth, Dorothy Gwin	St. Helena
1 LS-2330 Telegraph av	Bkly 9227	3 LS-2951 Linden av	Bkly 7958
Hoerger, Maurice Franklin	Monrovia	Holgerson, Harold Viggo	Bakersfield
*1 Com-2222 Bancroft way	Bkly 6475	2 Mec-2248 Telegraph av	Bkly 9011
Hoey, Henry James	Oakland	Holland, Gertrude	Berkeley
3 LS-336 Lester st, O	Mer 4338	3 LS-15 Hillcrest rd	Bkly 4850W

- Holland, Leonard Chesebrough Sacramento
1 Chem-25194 Durant av
- Holland, Philo K. Sacramento
13 Com-1809 Euclid av Bkly 1615
- Holland, Silvanus Miller San Francisco
2 CE-2808 Derby st Bkly 3911W
- Holland, Virginia Lee Fresno
1 LS-1542 Durant av
- Hollenbeck, Audrey Oakland
2 LS-2382 E. Twenty seventh st, O Frvl 1014W
- Holler, Albert Clarence Los Angeles
1 Agr-2614 Dwight way Bkly 5988
- Holler, Doris Dorathea San Francisco
13 LS-1461 Ninth av, S F Snst 2166
- Hollis, Elizabeth Berkeley
1 Com-1415 La Loma av Bkly 8044W
- Hollis, Emmett Everett Merced
1 LS PreM-2600 Bancroft way Bkly 1901
- Hollis, Mildred Berkeley
4 LS-1415 La Loma av Bkly 8044W
- Hollister, Irvin Wilson Berkeley
2 Agr-31 High court Bkly 580J
- Holloway, Eva Marguerite Porterville
1 LS-2226 Chapel st Bkly 879
- Holloway, Helen Joyce Martinez
1 LS-2749 Dwight way Bkly 6444
- Holloway, Layton Boynton, Mo.
1 LS-2250 Fulton st
- Hollstein, Rose Elizabeth Beach, N. D.
4 LS-1632 Spruce st Bkly 570J
- Holm, Earl Nelson Oakland
2 Mec-2415 Durant av Bkly 7429
- Holm, Francis Carl Berkeley
13 Mec-2126 Grant st Bkly 2059J
- Holm, Hugo Ferdinand Atwater, Minn.
4 Mec-2407 Dwight way Bkly 9025W
- Holman, Earl Leigh Farmington
3 Mec-2717 Derby st Bkly 7178W
- Holman, Esther Karlene Oakland
4 LS-494 Thirty-eighth st, O Pied 6468W
- Holman, Helen San Francisco
4 LS-Hotel Whitecotton Bkly 7800
- Holmer, Hans William Medford, Ore.
1 LS-1624 Bonita av
- Holmer, Margaret Anna Medford, Ore.
1 LS-1624 Bonita av
- Holmes, Everett Nathan Hilo, T. H.
2 Com-2634 Bancroft way Bkly 1276
- Holmes, Harry Lloyd Esparto
4 Agr-2419 Durant av Bkly 9194
- Holmes, Inez Dee Durango, Colo.
1 LS-2737 Ashby av Bkly 4663W
- Holmes, Olive Vera Durango, Colo.
1 LS-3044 Benvenue av Bkly 7271
- Holmes, William Jacob Esparto
1 Com-2500 College av Bkly 5942
- Holmsten, Bertil Fredericka Escalon
1 LS-1906 Webster st, O Oakd 6550
- Holt, Arthur Earle Los Angeles
1 Mec-2601 Channing way Bkly 5904
- Holt, Benjamin Dean Stockton
(1) 2 Agr-2251 College av Bkly 9107
- Holt, Edison A. Stockton
2 LS-2251 College av Bkly 9107
- Holt, Edmond Rufus San Francisco
1 LS PreL-2521 Hearst av Bkly 708
- Holt, James Marten El Centro
1(1) 4 LS-2601 Durant av Bkly 23
- *Holt, John Ruskin Santa Barbara
4 Com-2405 Prospect st Bkly 4420W
- Holt, Robert Alfred Oklahoma City, Okla.
(1) 2 Mec-Treelhaven apta Bkly 3235W
- Holte, Harold Oliver Crookston, Minn.
(1) 8 LS-2302 Dwight way
- Holts, Bertha Jackson
1 LS-6172 Chabot rd, O Pied 407
- Holts, Harold Richard San Francisco
2 LS-3741 Twenty-second st, S F Man 3523
- Holven, Alfred Leonard Long Beach
1(1) 3 LS-2634 Bancroft way Bkly 1276
- Holzman, Charlotte Miriam Portland, Ore.
2 LS-2421 Virginia st Bkly 1171J
- Holzman, Sylvia Ruth Portland, Ore.
3 LS-2421 Virginia st Bkly 1171J
- Homsy, George Edward Fresno
1 CE-2248 Telegraph av Bkly 9011
- Honeycutt, Everett Elmer Madera
3 Agr-2527 Ridge rd Bkly 6107
- Honeywell, Charles Francis Berkeley
4 LS-3132 College av Pied 6215W
- Honzik, Charles Berkeley
3 LS-2240 Telegraph av Bkly 1249J
- Honzik, Emma Klamath Falls, Ore.
1 LS-1615 Arch st Bkly 5240J
- Hook, Frederick Malcolm Oakland
2 Mec-69 Santa Clara av, O Oakd 4486
- Hook, James Stanley Walnut Creek
13 LS-2614 Dwight way Bkly 491J
- Hooper, Gertrude Elizabeth Sultana
1(1) 2 LS-2215 Fulton st
- Hooper, Harley Lewis Escondido
1 LS-2647 Dwight way Bkly 5831
- Hooper, Herbert D. Sultana
3 Chem-2485 Haste st Bkly 1980
- Hooper, Ralph Lincoln Escondido
4 Agr-University Farm, Davis
- Hooper, Robert Pardow San Francisco
13 LS-2522 Ridge rd Bkly 5950
- Hooper, William James Iron Mountain, Mich.
1 LS-2226 Chapel st Bkly 6509J
- Hoover, Constance Marguerite El Centro
1(1) 4 LS-2515 LeConte av

- Hopkins, Dorothea Greenleaf San Francisco
 1 LS-964 Haight st, S F Park 5761
- Hopkins, Edna Mae Redondo Beach
 4 LS-2520 Virginia st Bkly 7247
- Hopkins, Helen Louise Eagle Rock City
 4 LS-2227 Dwight way
- Hopkins, Herbert Huber Sacramento
 2 LS-2214 Dana st Bkly 1160
- Hopkins, John William El Centro
 2 LS PreL-781 Sixtieth st, O Pied 658
- Hopkins, Maurice Albert San Francisco
 2 LS PreM-2332 College av Bkly 1184
- Hopkins, Olin Edgar Petaluma
 1 Com-1640 Euclid av Bkly 7507
- Hopkins, Robert James Eagle Rock City
 (1) 4 LS-2227 Dwight way
- Hopkinson, Elizabeth Helen San Francisco
 3 LS-2520 Virginia st Bkly 7247
- Hoppe, Arthur Scrivner San Francisco
 3 LS-2300 Sacramento st, S F Flmr 1912
- Hopper, Charles Moody Spokane, Wn.
 1 Chem-251 Ashbury st, S F Pac 8526
- Hopping, Dorothy Berkeley
 14 LS-2525A Virginia st Bkly 2316J
- Hopping, Forest Lindsay
 13 LS-2525A Virginia st Bkly 2316J
- Hopping, George Redstone Berkeley
 11 Agr-2525A Virginia st Bkly 2316J
- Hor, Kwen Shwen Wushi, Honan, China
 2 Agr-2600 Etna st Bkly 7598
- Horene, George Leonard Oakland
 11s LS-832 Fourteenth st, O Oakd 6362
- Hornage, Simpson Henry Stockton
 3 Com-1726 Euclid av Bkly 6706
- Horner, William James Albuquerque, N. M.
 2 LS-2320 LeConte av Bkly 1407J
- Horasfall, Helen Raymond Washington, D. C.
 1s LS-2641 College av Bkly 7317J
- Horsford, Florence Ellen Oakland
 2 LS-678 Arimo av, O Lkd 5439
- Horstman, William H Berkeley
 13 Com-2241 Virginia st Bkly 2647
- Horswill, Horace John Oakland
 11 Chem-2342 Waverly st, O Oakd 7789
- Horton, Agnes Berkeley
 12 LS-2816 Hillegass av Bkly 3144
- Horton, Edward Ray Arcata
 2 Com-2617 Durant av Bkly 822
- Horton, Florence Berkeley
 3 LS-2816 Hillegass av Bkly 8144
- Horton, Harold Merritt Arcata
 2 Min-2617 Durant av Bkly 822
- Horwitz, Abe Berkeley
 8 LS-2318 1/2 Bancroft way
- Hoskins, Cortez Richard Lee's Summit, Mo.
 11 Agr-2276 Shattuck av Bkly 8300
- Hoskinson, Albert J. Healdsburg
 4 CE-2311 1/2 Haste st
- Hoskinson, Walter Ray Healdsburg
 2 Chem-2311 1/2 Haste st
- Hosler, Ralph Henry Los Angeles
 11 LS-2315 Dwight way Bkly 4026
- Hosmer, Matthew Newell Turlock
 12 Med-2345 College av Bkly 62
- Hotaling, Andrew Garrett San Francisco
 1s Com-2070 University av Bkly 5852
- Hotchkin, Pauline Darrell Anderson
 3 Com-2434 Channing way Bkly 5957W
- Hougham, Edward Bennett Bakersfield
 13 Com-1730 La Loma av Bkly 8716
- Hougham, Theodore Sylvester Bakersfield
 1 Com-1730 La Loma av Bkly 8716
- House, Elliott Marcus San Francisco
 1 Com-1515 Lyon st, S F West 1597
- House, Viola Henrietta Pasadena
 12 LS-1547 Euclid av Bkly 6681
- Houser, Leonard Chauncey San Diego
 11 Mec-2001 Allston way Bkly 6710
- Housken, Merle L. Oakland
 2 LS-148 Moss av, O Pied 7548J
- Housner, Milton Storer Oakland
 1 Com-940 East Fourteenth st, O
- Houston, Albert J. R. Palo Alto
 4 Mec-2529 Hearst av Bkly 40
- Houston, Fred William San Francisco
 1 LS-2285 Broadway, S F Flmr 2183
- Houston, Mildred Williams Mesa, Ariz.
 1 LS-2529 Channing way Bkly 8125W
- Houx, Allen Mering Santa Barbara
 11 Agr-2747 Bancroft way Bkly 1227
- Hovde, Bergljot Portland, Ore.
 (1) 2 LS PreA-2515 Webster st Bkly 236J
- Howard, Averett Sacramento
 4 LS-2527 LeConte av Bkly 4657W
- Howard, Catherine Tirzah South Pasadena
 1 LS PreA-2417 LeConte av Bkly 5650
- Howard, Charles Houghton Berkeley
 8 Com-1401 LeRoy av Bkly 72
- Howard, Eleanor Mary Des Moines, Iowa
 4 LS-1214 Walnut st Bkly 2050J
- Howard, Glory Berkeley
 1 LS-2238 Ellsworth st Bkly 4230
- Howard, Harlan H Des Moines, Iowa
 12 Com-1214 Walnut st
- Howard, Herbert Sanford, Jr. Berkeley
 4 LS-1012 Spruce st Bkly 752
- Howard, Jane Oakland
 1 LS-107 Kempton av, O Oakd 292
- Howard, Jeanne L. Long Beach
 1 Com-2523 Ridge rd Bkly 8482W
- Howard, Margaret Oakland
 13 LS-107 Kempton av, O Oakd 292
- Howard, Marguerite J. Long Beach
 12 Com-2523 Ridge rd Bkly 8482W
- Howard, Placie Margaret Sacramento
 4 LS-2527 LeConte av Bkly 4657W

- Howard, Virgil Varnum Yreka
 '1 Mec-2617 Durant av Bkly 822
- Howard, William Miller Dixon
 (1) 2 Chem-2345 College av Bkly 62
- Howatt, Lucy Janet Oakland
 '1s LS-3124 Telegraph av, O Pied 5099W
- Howe, Lois Chambers Pasadena
 3 LS-2736 Haste st Bkly 8680
- Howe, Vera Gwen Hanford
 4 LS PreM-2639 College av Bkly 5140J
- Howell, Burl Hayden Walnut
 2 LS-2412 Piedmont av Bkly 5098
- Howell, Cletus Ignatius Bakersfield
 8 Com-1415 Spruce st Bkly 7831J
- Howell, Ethel Berkeley
 4 Agr-2811 Claremont blvd Bkly 8916
- Howell, Helen McIver Los Angeles
 '2(1) 3 LS-2417 LeConte av Bkly 5650
- Howell, John Benjamin Santa Barbara
 1 Com-2317½ Durant av Bkly 6043W
- Howell, Mary Davis Los Angeles
 (1) 3 LS-2417 LeConte av Bkly 5650
- Howells, Hamilton Richmond Belvedere
 2 CE-2529B Hilgard av
- *Howells, Merriam Joseph Belvedere
 4 LS-2529B Hilgard av
- Howery, Lois Marguerite Perris
 3 LS-2430 Bancroft way
- Howeth, Irving Keller Los Angeles
 1 Min-456 Third av, S F Pac 9594
- Howse, Oliver J. Laurel, Miss.
 2s Agr-2214 Union st Bkly 2483
- Hoyer, Reuben Theodore Berkeley
 '1 CE-1069 Kains av
- Hoyt, Doris Gray Oakland
 2 LS-407 Fairmont av, O Oakd 2840
- Hoyt, Homer Butler Oakland
 '2(1) 3 Agr-317 Chicago av, O Mer 1451
- Hoyt, Jonathan Berkeley
 2 Chem-2956 Piedmont av Bkly 6312W
- Hoyt, Olivia Suisun
 1 LS-2695 Cedar st Bkly 538W
- Hrubetz, Caroline Salem, Ore.
 '2 LS-2428 Dwight way Bkly 4244W
- Hubbard, Albert Sheridan Oakland
 4 Com-2620 Bancroft way Bkly 8870
- Hubbard, Alva Traver Huntington Park
 '1(1) 2 Com-1725 Euclid av Bkly 4348
- Hubbard, Frank William Berkeley
 2 LS-2329 McGee st Bkly 1776W
- Hubbard, Kathryn Sears Pasadena
 1 LS-2710 Channing way Bkly 9520
- Hubbard, Mary Ellen Simmler
 4 LS-921 E Seventeenth st, O Mer 607
- Hubbell, Irving Denton Los Gatos
 3 Min-2217 Dwight way
- Hubbert, Jeanette Helen San Francisco
 2 LS-5639 California st, S F Pac 2704
- Hubbert, Natalie Marie San Francisco
 '1 Com-5639 California st, S F Pac 2704
- Huber, Hazel Irene Berkeley
 8 LS-1407 Euclid av Bkly 2953
- Huberty, Martin Richard San Andreas
 4 Agr-University Farm, Davis
- Huberty, Rega Lodi
 2 LS-2811 Regent st Bkly 303W
- Huddleston, Jean Berkeley
 4 LS-Arlington av and Nottingham rd Bkly 8340J
- Huddleston, Robert B. Oakland
 '1 LS-1235 Thirtieth av, O
- Hudner, Charles W. Hollister
 '4 LS PreL-2601 Durant av Bkly 23
- Hudson, Gladys Violet Fowler
 1 LS-2500 Dana st Bkly 3692W
- Hudson, Helen Cheyenne, Wyo.
 1 LS-2627 Hearst av Bkly 3229
- Hudson, Isabel Julia East Nicolaus
 1 Com-2632 Haste st Bkly 1033W
- Hudson, James Bentan Compton
 '1 LS PreL-2001 Allston way Bkly 6710
- Hudson, Nathaniel Delos Los Angeles
 (1) 2 Agr-2734 Forest av Bkly 3484J
- Hudson, Ruth Evelyn Los Angeles
 4 LS-2300 Durant av Bkly 8471W
- Hudson, Victor Stuart Sacramento
 '1 Agr-2305 Cedar st
- Hudson, William Urquhart Inglewood
 4 LS-1711 Euclid av Bkly 3378
- Hudson, Wilma Emma Hermosa Beach
 2 LS-2520 Virginia st Bkly 7247
- Hudspeth, Benjamin Theodore Chico
 2 CE-2634 Benvenue av Bkly 1186W
- Huff, Helen Josephine Alhambra
 '1 LS-2627 Hearst av Bkly 8229
- Huffaker, Lauretta Oakland
 4 LS-3201 Davis st, O Frvl 1684J
- Huffer, Laurence Cady Alpaugh
 '2 LS-Oxford apts Bkly 2385W
- Huffer, Truman Ray Alpaugh
 4 Com-Oxford apts
- *Huffman, Ruth Scott Lodi
 4 LS-2328 Bowditch st Bkly 2152W
- Huggard, Dewey Enright Los Angeles
 1s LS PreL-3041 Hillegas av
- Huggins, Helen Berkeley
 '2 LS-2818 Channing way Bkly 145
- Hughes, Alfred Edward Oakland
 1 Mec-3524 West st, O Pied 6594
- Hughes, Arthur John Berkeley
 (1) 4 LS-2710 Prince st Bkly 2247J

- Hughes, Constance Harriet Visalia
4 LS-2730 Derby st
- Hughes, Edna Mae San Francisco
2 LS-2417 LeConte av Bkly 5650
- Hughes, Emery Clifton Parlier
1 Com-2842 Bancroft way Bkly 653
- Hughes, Gordon Stanley Sacramento
1 LS PreL-2425 LeConte av
- Hughes, Helen Gerrish San Francisco
3 LS-2530 Ridge rd Bkly 7084
- Hughes, Jack West Dunnigan
1 LS-2647 Durant av Bkly 102
- Hughes, John Edward Vallejo
1 (1) 2 LS PreM-2127 Carlton st
- Hughes, Kathryn Laura San Francisco
2 LS-2530 Ridge rd Bkly 7084
- Hughes, Marjorie Helen Berkeley
(1) 2 LS-2738 Garber st Bkly 4687W
- Hughes, Mary Felicia San Jose
4 LS-2519 Hillegass av Bkly 477
- Hughes, Robert Elwyn Oakland
3 LS PreM-2014 Green st, S F West 1391
- Hughes, Ruth Carolyn Los Gatos
3 LS-1501 LeRoy av Bkly 1024W
- Hughes, Vera Louise Ripon
3 LS-514 Sixty-second st, O Pied 8648W
- Hughson, Forrestina Love Visalia
1 LS-2119 Addison st Bkly 5367W
- Hugus, Evelyn Elizabeth Corning
(1) 3 LS-166 Santa Clara av, O Pied 7665J
- Huhns, Helmuth Frederick Los Angeles
12 Com-2334 Durant av Bkly 3485
- Hulin, Carlton D. Alameda
4 Min-1711 Central av, A Ala 1819
- Hull, Beatrice Frances Tracy
1 LS-2523 Dwight way Bkly 1027J
- Hull, Helen Carter Wasco
1 LS-2624 Virginia st Bkly 3663
- Hull, James P. Bakersfield
3 LS PreM-2713 Haste st Bkly 78
- Hull, Roswell Lee Hollister
3 LS-2251 College av Bkly 9107
- Hull, Russell Taylor Los Angeles
1 Min-1608 Grove st
- Hullin, Philip Ross Sacramento
1 Mec-2214 Dana st Bkly 5043W
- Hulme, Kathryn Cavarly San Francisco
2 LS-2416 College av Bkly 8476J
- Huls, Trenton Deeds San Bernardino
(1) 2 Com-Elks Club Bkly 1002
- Hummel Lloyd San Francisco
2 Agr-2833 Webster st, S F West 2580
- Hummel, Rosely San Francisco
4 LS-2833 Webster st, S F West 2580
- Humphreys, Donald Paul Lawton, Okla.
1 Com-2150 Center st
- Humphreys, Marie Berkeley
2 LS-2901 Ashby av Bkly 2203W
- Humphry, Floyd Meachem Los Angeles
3 LS-Sequoia apts Bkly 7175W
- Hunick, Alice Mae Calverico
1 LS-2636 Channing way
- Hunnicut, Leland G. Whittier
(1) 3 LS PreM-2508 Haste st Bkly 767W
- Hunsberger, Janet Catherine Riverside
(1) 3 LS-2141 Berkeley way Bkly 1596
- Hunsinger, Hugh Gifford Oakland
1 LS-5250 Desmond st, O Pied 6146J
- Hunt, Anna Eliza Alameda
1 LS-501 Santa Clara av, A Ala 8232W
- Hunt, Everard Berkeley
3 LS-2908 Channing way Bkly 2677
- Hunt, Geraldine Oakland
1 LS-2752 Grove st, O Oakd 9098
- Hunt, Harry Averill Niles
1 Agr-2634 Bancroft way Bkly 1276
- *Hunt, Ronald Walter Niles
4 Agr-2634 Bancroft way Bkly 1276
- Hunter, Edwyna Elizabeth Knight's Ferry
3 LS and 1 Juris-1437 Second av, O
- Hunter, Elizabeth Knox Los Gatos
1 LS-2524 LeConte av Bkly 2531
- Hunter, Elsie Irene Paso Robles
2 LS-2827 Hearst av Bkly 4009
- Hunter, Harold Alpheus Lindsay
1 Agr-694 Thirty-third st, O Pied 3914W
- Hunter, Harold James Chilly, Idaho
2 LS PreL-2225 Dwight way
- Hunter, Lacy Gorin San Francisco
2 Med-1130 Haight st, S F Park 6203
- Hunter, Merry Lucile Sacramento
2 LS-2417 LeConte av Bkly 5650
- Huntington, Fred W. San Francisco
1 Mec-2001 Allston way Bkly 6710
- Huntley, Calvin Hall Auburn
13 Com-2522 Ridge rd Bkly 5950
- Huntley, William Crutcher East Auburn
4 LS-2522 Ridge rd Bkly 5950
- Hunton, Lynn Wood Red Bluff
2 Min-1941A Bancroft way Bkly 4086W
- Hupp, Stella Gertrude Santa Ana
1 LS-2400 Bancroft way Bkly 6488J
- Hurd, Alan Thomas Escondido
4 LS-2416 Durant av
- Hurd, Florence Lillian Berkeley
1 (1) 2 LS-945 Cragmont av Bkly 2113W
- Hurd, Mildred Hawkins Salt Lake City, Utah
3 LS-2641 1/2 Channing way Bkly 2276J
- Hurdall, John Percy San Francisco
1 CE-861 Clayton st, S F Mrkt 5904
- Hurt, Arthur Edwin Berkeley
1 Com-2917 Regent st Bkly 5868W
- Hurt, Veda Sarah Covelo
1 LS-2305 Bancroft way Bkly 7461

- Hurt, John Nelson Portland, Ore.
3 LS-2620 Bancroft way Bkly 8870
- Huss, Albert Charles Ogden, Utah
1 CE-2628 Durant av
- Hussey, Charles Edward Berkeley
4 LS-1738 Milvia st Bkly 8540J
- Hussey, Edward Bright, Jr. Berkeley
2 LS PreA-1738 Milvia st Bkly 8540J
- Hussien, Esther S. Fresno
*1) 3 LS-2524 Dwight way
- Huston, Arlos Joslyn Sacramento
*3 LS-2421 LeConte av Bkly 8062
- Huston, Robert Walter Woodland
2 LS PreL-2522 Ridge rd Bkly 5950
- Hutchinson, Fred Clarence Berkeley
2a LS and 1 Juris-2611 Russell st Bkly 611W
- Hutchinson, Harold Leroy Kansas City, Mo.
(1) 3 Agr-2832 College av Bkly 1184
- Hutchinson, Marion Louise Fresno
2 LS-2520 Durant av Bkly 1675
- Hutchison, Bernice O. Fresno
4 LS-527 Zorah st, O Mer 2063
- Hutchison, James Barnett Los Angeles
2 LS-1726 Euclid av Bkly 6706
- Hutchison, Robert Kerr Oakland
2 LS-5677 Keith av, O Pied 2279
- Huth, Harry William San Francisco
*2 Mec-340 Lombard st, S F
- Hutt, Thomas Griffin, Jr. Alameda
1 LS-1815 Highland pl Bkly 1682
- Hutton, Douglas English Berkeley
2 LS PreL-2125 Ward st Bkly 2707
- Hutton, Lucy Grace Auckland, New Zealand
*1 LS-1001 Spruce st Bkly 580W
- Hutton, Robert Eggleston Santa Monica
2 LS-2528 Ridge rd Bkly 3500
- Huxley, Albert Tuttle Watsonville
1 Com-2324 Dwight way Bkly 5560W
- Hvall, Hilda Danguy Berkeley
*1 LS-19 Hillside court Bkly 4489
- Hyams, Elizabeth Barrington Los Angeles
1 LS-1002 Lakeshore av, O Oakd 8370
- Hyatt, Madeleine Lucile Boise, Idaho
8 LS-2527 LeConte av Bkly 9520
- Hyatt, Phyllis Sacramento
1 LS-2442 Hilgard av Bkly 7666W
- Hyde, Kathryn Van Wyck San Francisco
3 LS-2732 Channing way Bkly 7026
- Hyde, Orra Crosby, Jr. Lincoln
4 LS-2251 College av Bkly 9107
- Hyde, Robert McKee Santa Barbara
2 LS-1810 LeRoy av Bkly 9001J
- Hyde, Wallace Edward Oakland
*2 LS-2043 Seventh av, O Mer 2424
- Hyman, Alvin Davison San Francisco
3 LS-2617 Durant av Bkly 822
- Hyman, Milton Morris Woodland
1 LS-2600 Durant av Bkly 1781W
- Hyne, James Cook Los Angeles
3 LS-2174 University av Bkly 1037
- Iliohan, Henrica Oakland
4 Com-1029 Fifty-fifth st, O Pied 5509W
- Ilse, James Henry Glendale
1 Mec-6111 Colby st, O Pied 44
- Imler, Marjorie Adelaide Glendale
3 LS-1547 Euclid av Bkly 6681
- Ingalls, Allan Edwin Berkeley
1 LS PreM-2915 Florence st Bkly 4615W
- Ingalls, Carrie Crane San Francisco
*1s LS-325 Sutter st, S F Sutr 3240
- Ingerson, Irvin Milton Sacramento
1 CE-2311 Stuart st Bkly 8270J
- Inghram, Howard Deloss San Bernardino
2 LS PreM-21 Tanglewood rd Bkly 7216
- Ingles, Mary Lena Douglas, Aria
3 LS-2112 Delaware st
- Ingram, Leslie William Berkeley
3 Mec-2425 LeConte av Bkly 4334
- Ingram, Robert Lockwood San Francisco
2 LS-1232 Masonic av, S F
- *Ingram, Selena Pope Los Angeles
4 LS-2723 Durant av Bkly 9531
- Ingram, William Stuart Venice
4 LS-2616 Virginia st Bkly 6716
- Inskip, Lorenzo Dow, Jr. Oakland
*3 LS PreM-2528 Ridge rd Bkly 2500
- Inskip, William Dolman Berkeley
2 LS PreM-2713 Haste st Bkly 78
- Iraoqui, Jose Mexico City, Mexico
1 Agr-2318 Telegraph av Bkly 5964
- Irvin, Reuben John Angels Camp
4 LS-2401 Durant av Bkly 6504
- Irvine, James Cleveland Salinas
1 LS-1540 Spruce st Bkly 921W
- Irvine, Mildred Ewing Long Beach
(1) 2 LS-1715 LeRoy av Bkly 2351
- Irving, Leslie William Oakland
4 LS and 1 Juris-2601 Durant av Bkly 23
- Irving, Milbourne Grant Placerville
1 Agr-434 Sixtieth st, O
- Irwin, Alice San Francisco
3 LS-2542 Durant av Bkly 1364
- Irwin, Madora Margaret Hollywood
2 LS-2219 Ellsworth st Bkly 4371
- Isaac, Florence Magdalena Corning
1 LS-2749 Dwight way Bkly 6444
- Isaac, Rosa Dora San Francisco
3 Mec-1665 Shattuck av Bkly 6615W
- Isaac, Winona Estella Corning
4 LS-2749 Dwight way Bkly 6444
- Isaacs, Benjamin Harrison San Diego
*1 LS PreM-573 Twenty-third st, O
- Isaman, Miriam Visalia
3 LS-29 Domingo av Bkly 6853

- Isenberg, Rudolph Alexander Honolulu, T. H.
 *2 LS PreL-3216 Jackson st, S F Flmr 2209
- Ish, Marian Howard Oakland
 1 LS-679 Fairmont av, O Pied 5278W
- Isham, Carlton Griffith Oakland
 1 Mec-1328 Ninety-sixth av, O
- *Ishii, Juzaburo Los Angeles
 4 LS PreA-1789 Euclid av Bkly 6449
- Isoard, Max W C Nevada City
 2 LS PreM-1932 Parker st Bkly 3175
- Isom, Lillie Crows Landing
 4 LS-2241 Durant av Bkly 1627J
- Israeli, Ardashes Fresno
 8 LS-824 Twenty-seventh st, O Oakd 47
- Irsaelaky, Merle O San Francisco
 2 LS-463 Noe st, S F Mrkt 5684
- Ito, Koken George Los Angeles
 1 LS PreA-1789 Euclid av Bkly 6441
- Isant, Mabel Mary Santa Cruz
 1 LS-2311 Bancroft way Bkly 214
- Jackman, Hazel Berdine Los Angeles
 1 LS-734 Bush st, S F Krny 2968
- Jackson, Abel Harrington Oakland
 *2 LS-561 Vernon st, O Pied 4391
- Jackson, Bern Arthur El Reno, Okla.
 (1) 2 LS-1832 Francisco st Bkly 9467W
- Jackson, Edward Nathan San Francisco
 *1 LS PreL-1538 Milvia st
- Jackson, Harry Andrew, Jr. Berkeley
 8 LS-2251 College av Bkly 9107
- Jackson, Herbert Edward Alameda
 1 Com-2511 Lincoln av, A Ala 274
- Jackson, Ida Louise Oakland
 *1) 8 LS-621 Fifty-eighth st, O Pied 2278W
- Jackson, Irving Los Angeles
 2s Com-2536 Regent st Bkly 4041J
- Jackson, Jessie Wright Readley
 1 LS-1632 Spruce st Bkly 570J
- Jackson, John Roland Watsonville
 1 LS-2509 Regent st Bkly 8606J
- Jackson, Juanita Venice
 1 LS-2214 Dana st Bkly 1160
- Jackson, Lee Albert El Reno, Okla.
 (1) 2 LS-1833 Francisco st Bkly 9467W
- Jackson, Myra Leora Alamogordo, N. M.
 *1 LS-2531 Ridge rd Bkly 2531
- Jackson, Robert Morley Tacoma, Wn.
 *1 Com-Hotel Claremont Bkly 9800
- Jackson, Ruth Avenel Alameda
 2 LS-2432 Russell st Bkly 1482J
- Jackson, Ruth Fanchon Berkeley
 8 LS-2708 College av Bkly 3887
- Jacobi, Portia C. Berkeley
 *1 Com-Berkeley Inn Bkly 6370
- Jacobs, Allen Walter Bend, Ore.
 *1 Agr-2438 Durant av Bkly 8757W
- Jacobs, Doris Claire Berkeley
 4 LS-2793 Benvenue av Bkly 5274W
- Jacobs, Ernest E. Elko, Nev.
 2 Chem-2600 Durant av Bkly 1731W
- Jacobs, Fred Alva Portland, Ore.
 2 LS-2610 Durant av Bkly 7804
- Jacobs, Ira San Francisco
 1 LS PreA-830 Thirty-sixth av, S F Pac 793
- Jacobs, Jessyl Benjamin Alameda
 2 Com-1319 Pacific av, A Ala 1416
- Jacobs, Lucille Felton San Francisco
 2 Com-2512 Benvenue av Bkly 8660
- Jacobs, Van Vrooman Zamora
 *3 LS PreL-2627 Ridge rd Bkly 2541
- Jacobsen, Jennie Rossen Gardnerville, Nev.
 *3 LS-146 McAllister st, S F
- Jacobsen, Karen Idaho Falls, Idaho
 8 LS-2435 Hilgard av Bkly 6406
- Jacobsen, Otto J Berkeley
 *1 LS-1617 Scenic av Bkly 4249J
- Jacobson, Eugene Morris San Francisco
 *1 Mec-511 Eleventh av, S F Pac 7921
- Jacobson, Marie Adelaide Oakland
 *1s LS-115 Kempton av, O Oakd 9472
- Jacobus, Lawrence Russell Tucson, Ariz.
 (1) 4 LS-2328 Haste st
- Jacobus, Melvin St. Clair Tacoma, Wn.
 1 Com-2426 Virginia st Bkly 564
- Jaehnnig, George Robert Fortuna
 3 Agr-University Farm, Davis
- Jaffa, Aileen Raby Berkeley
 2 LS-2637 Virginia st Bkly 949
- James, Edith Anita Phoenix, Ariz.
 *1 LS-2417 LeConte av Bkly 5650
- James, Katharine South Pasadena
 2 LS-2725 Channing way Bkly 7950
- James, Margarita A Alameda
 4 LS-2070 Encinal av, A Ala 1995
- James, Marion Elizabeth Madison, Wis.
 *4 LS-2214 Dana st Bkly 5043W
- James, Ruth Gwendolyn Auburn
 *1 LS-2243 Dwight way Bkly 88
- James, Thomas Reed San Diego
 3 Chem-2212 Bancroft way Bkly 6093
- Jameson, John Myron Bakersfield
 3 LS-2200 Piedmont av Bkly 6601
- Jameson, Margaret Carlyle Pasadena
 2 LS-2725 Channing way Bkly 7950
- Janak, Earl Leslie Woodland
 1s Mec-2620 Benvenue av Bkly 7380W

- Jansen, Norma Anita
1 LS-Eugene apts
Janssen, Edith Lurene
1 LS-2135 Ward st
Janssen, Jane Ruth
2s LS-2421 LeConte av
January, Lora Katherine
3 LS-2616 Parker st
Jaqua, Charles Gray
1 Min-2432 Ellsworth st
Jardine, John Earle, Jr.
2 CE-2717 Hearst av
Jardine, Reese Llewellyn
1 Com-2012 Dwight way
Jarkowsky, Isaac Jacob Harbin, Russia
12 CE-2367 Bush st, S F West 2302
Jarvinen, Laurence John
1 LS-2210 Chapel st Mendocino
Jarvis, Ellis Adams
1 LS-2248 Telegraph av Sutter Creek
Jarvis, Emma Elizabeth
3 LS-1715 LeRoy av Sutter Creek
Jason, William Eli
12 Com-1482 Masonic av, S F Park 7969
Jayne, Frederick Maxwell Santa Ana
(1) 2 Com-2647 Durant av Bkly 102
Jean, Wong Koon
2 LS PreM-829 Grant av, S F China 304
Jeancon, Harold Marion Los Angeles
1 Agr-2622 College av Bkly 7649W
Jeckell, Elma Mary
1 LS-1619 Walnut st Berkeley
Jeckell, Essy Nairn
2 Com-1619 Walnut st Bkly 2611J
Jefferson, Helen Genevieve
2 LS-2643 College av Berkeley
Jeffery, Verna Lillian
2 LS-674 Poirier st, O Oakland
Jeffress, Lloyd Alexander Portland, Ore.
(1) 2 LS-2327 Bancroft way Bkly 1061W
Jeffrey, Robert Irvine
1 LS-2717 Haste st Bkly 2546W
Jenkins, Alta B Los Angeles
1s LS-2307 Hearst av Bkly 6815
Jenkins, Harry L Pocatello, Idaho
3 LS PreM-2501 Ridge rd Bkly 1335
Jenkins, Lulu Marie Santa Monica
(1) 4 LS-2804 Telegraph av Bkly 3428
Jenkins, Ruth Evaline Berkeley
1 LS PreA-2008 Grove st Bkly 5534W
Jenkins, Thomas Pearce Sacramento
2 Mec-2422 Peralta av, O Frvl 1602J
*Jenks, Clarence Arthur Berkeley
4 LS-2601 Hillgass av Bkly 8012J
Jenks, Elizabeth May Berkeley
4 LS-2601 Hillgass av Bkly 8012J
Jenks, Livingston Berkeley
2 LS-2636 Piedmont av Bkly 2713
Sonoma City
Bkly 1112W
Maricopa
Bkly 4654J
San Francisco
Bkly 3062
Concord
Bkly 6938W
Alhambra
Bkly 6708W
Pasadena
Bkly 5770
Berkeley
Bkly 6440
West 2302
Mendocino
Bkly 6087J
Sutter Creek
Bkly 9011
Sutter Creek
Bkly 2351
San Francisco
S F Park 7969
Santa Ana
Bkly 102
Fort Bragg
S F China 304
Los Angeles
Bkly 7649W
Berkeley
Bkly 2611J
Brawley
Bkly 2611J
Berkeley
Bkly 1963W
Oakland
Pied 8199W
Portland, Ore.
Bkly 1061W
Irvine
Bkly 2546W
Los Angeles
Bkly 6815
Pocatello, Idaho
Bkly 1335
Santa Monica
Bkly 3428
Berkeley
Bkly 5534W
Sacramento
Frvl 1602J
Berkeley
Bkly 8012J
Berkeley
Bkly 8012J
Berkeley
Bkly 2713
- Jennings, Isabel Sage
2 LS-758 Fifty-sixth st, O Oakland
Jennings, William Howard San Diego
3 LS PreL-2345 College av Bkly 62
Jensen, Carroll Ernest San Francisco
12 LS-2601 Durant av Bkly 23
Jensen, Elsinore Clara Santa Cruz
2 LS-1870 Twenty-fourth av, S F
Snet 3547
Piedmont
Pied 2735J
Redondo Beach
12 LS PreL-1814 Virginia st
Jensen, Gladys Marie Oakland
2 LS-2215 Forty-seventh st, O Frvl 789J
Jensen, Marguerite Ingeborg Oakland
2 LS-464 Fairmont av, O Lkad 3935
Jensen, Marie Christeen Oakland
1 Com-464 Fairmont av, O Lkad 3935
Jerahian, John San Francisco
1s Min-2248 Telegraph av Bkly 9011
Jessen, Ada May Hayward
1s LS-1318 C st, Hayward
Jessen, Frances Manila Anderson
4 LS and 1 Juris-2523 Hillgass av
Bkly 710
Piedmont
Pied 1155W
Coronado
Bkly 5964
Covina
Anaheim
Oakland
Pied 3834
San Bernardino
Eureka
Bkly 6483J
Alameda
Bkly 7963J
Payette, Idaho
Bkly 7804
Honolulu T. H.
Campbell
Clarksville
Bkly 2531
Willows
Bkly 999W
Denver, Colo.
Bkly 6710
Molvane, Kan.
Vancouver, Wa.
Bkly 5137

- Johnson, Archie Joseph Crescent City
1 Com-2612 Haeste st
- Johnson, Arthur Alexander Antigo, Wis.
4 Com-1852 E. Twenty-eighth st, O
Mer 1019
- Johnson, Carl Edward Turlock
1 LS PreM-1729 Parker st
- Johnson, Charles Franklin Burley, Idaho
(1) 3 Com-2521 Channing way
Bkly 9306
- Johnson, Claire Carothers Noblesville, Ind.
1 LS-2531 Ridge rd Bkly 7066
- Johnson, Clark Moore San Diego
1 Med-Fabiola Hospital, O Pied 162
- Johnson, Donald Dickinson Berkeley
3 Com-2954 Russell st Bkly 4067
- Johnson, Edith Loreen Chico
3 LS-Oxford apts Bkly 9341J
- Johnson, Ella Moore San Luis Obispo
1 LS-2435 Hilgard av Bkly 6406
- Johnson, Ellen Stone Middletown
3 LS-2530 Ridge rd Bkly 7084
- Johnson, Elsie C. Benjamin, Utah
2 LS-2202 Blake st
- Johnson, Elsie May Bisbee, Ariz.
3 LS-2226 Chapel st Bkly 879
- Johnson, Ernest Theodore Turlock
3 Mec-2606 Bancroft way Bkly 2617
- Johnson, Faith Winifred Denver, Colo.
1(1) 4 LS-2039 Shattuck av Bkly 4929
- Johnson, George Dewey Downieville
8 Mec-2647 Dwight way Bkly 5881
- Johnson, George Herbert Santa Rosa
2 Mec-2017 Lincoln st Bkly 4706J
- Johnson, George Marion San Bernardino
1 LS-2085 Center st Bkly 1890
- Johnson, Gerald Reid Sacramento
4 LS and 1 Juris-2620 Bancroft way
Bkly 8870
- Johnson, Hallett Los Angeles
1 LS-1535 Euclid av Bkly 4554
- Johnson, Harold Robert San Francisco
14 LS PreM-2601 Channing way
Bkly 5904
- Johnson, James Lannes Crescent City
2 LS PreA-2214 Channing way
Bkly 8535J
- Johnson, Jane Gregg Seattle, Wn.
3 LS-2409 College av Bkly 8958J
- Johnson, Keplar Barth Berkeley
4 LS PreA-Architecture bldg, Campus
- Johnson, Lorene Gertrude Santa Rosa
2 LS-2508 Ridge rd Bkly 4485W
- Johnson, Lucile Buckingham Bishop
1 LS-2828 Bowditch st Bkly 2152W
- Johnson, Mamie H. Berkeley
12s LS-2202 Blake st
- Johnson, Margaret Leona Watsonville
4 Agr-2520 Cedar st Bkly 1444
- Johnson, Marvin Emil Lincoln
1 Com-2534 Grove st Bkly 5727W
- Johnson, Melvin William Oakland
2 Agr-2430 Twenty-second st, O
- Johnson, Mildred Vida Sacramento
2 LS-2022 Blake st Bkly 3746J
- Johnson, Mollie E. Vallejo
1s LS-2307 Hearst av Bkly 6815
- Johnson, Muriel Meering Berkeley
1 LS-2317 Carlton st Bkly 3316W
- Johnson, Octavia Ruth Berkeley
8 LS-3033 Deakin st Bkly 3753W
- Johnson, Paul M. Santa Rosa
1 Mec-2235 Durant av Bkly 7929
- Johnson, Philip Ellsworth Sacramento
1 CE-2341 Carlton st Bkly 9006W
- Johnson, Rufus William Berkeley
3 Agr-University Farm, Davis
- Johnson, Russell Samuel Pasadena
1 LS-2647 Durant av Bkly 102
- Johnson, Stanley Charles Oakland
1 Com-3225 Montana st, O Frvl 965J
- Johnson, Teresita Trescony Monterey
1(1) 4 LS-1869 Hyde st, S F
- Johnson, V. Nevada Oakland
1 LS-198 John st, O
- Johnson, Walter John Berkeley
2 LS PreM-2000 Dwight way
Bkly 8371W
- Johnson, William Alexander San Bernardino
2 LS-15 Hillcrest court Bkly 6214
- Johnson, William Elwood Richmond
2 LS PreM-529 McDonald av, R
- Johnston, Alan Huson Sacramento
2 Com-2501 Ridge rd Bkly 1835
- Johnston, Archibald Hope Martinez
1 Com-1826 Twentieth av, S F Sst 2874
- Johnston, Dorothy Cameron Los Angeles
18 LS-2826 Hillgass av Bkly 8999
- Johnston, Edna Sue New York, N. Y.
3s LS-2518 Etna st Bkly 4975W
- Johnston, Ernest Yerington, Nev.
2 LS PreL-2600 Durant av
- Johnston, Genevieve Emily May Los Angeles
4 Chem-2320 Blake st Bkly 3180W
- Johnston, Ivan Murry Upland
4 LS-2529 College av Bkly 7875W
- Johnston, Robert Eureka
2 LS-2412 Piedmont av Bkly 5098
- Johnston, Ruby Fresno
1 Com-2330 College av Bkly 4559
- Johnston, Theckla Jean Watsonville
3 LS-2214 Dana st Bkly 1160
- Johnston, Wilfred Harvey San Francisco
2 Min-2528 Ridge rd Bkly 3500
- Jonas, Herman Henry Oakland
1 LS-5521 E. Fifteenth st, O Frvl 575

- Jones, Austin Emery Crescent City
2 Mec-2246 Fulton st Bkly 9028W
- Jones, Delbert Alvin Berkeley
1 LS PreM-2208 Ellsworth st. Bkly 7912J
- Jones, E. Virginia Healdsburg
2 LS-1547 Euclid av Bkly 6681
- Jones, Edith Katherine Vallejo
2 LS-2715 Stuart st Bkly 9546W
- Jones, Edna Evelyn Fortuna
1 Com-2533 Durant av
- Jones, Emma Jane Lucille Santa Monica
2 LS-2400 Piedmont av Bkly 5224
- Jones, Errol Aubry Fresno
1 LS PreL-859 Thirty-fifth st, O
- Jones, Etta Geraldine Goldfield, Nev.
(1) 2 LS-2835 Warring st Bkly 6744
- Jones, Evan Merlin Sacramento
4 LS PreM-Hotel Clarendmont Bkly 9800
- Jones, Fred Lemuel San Diego
1 Com-2240 Telegraph av Bkly 1249
- Jones, Gaylord Jefferson Santa Maria
1 LS PreA-2248 Telegraph av Bkly 9011
- Jones, Gwenfred Evelyn Malad, Idaho
(1) 3 LS-2428 Bancroft way Bkly 3034
- Jones, Helen Elizabeth Oakland
1 LS-2170 E Twenty-eighth st, O Mer 5619
- Jones, Holloway Edward Berkeley
3 LS PreL-2549 Dwight way Bkly 6628J
- Jones, Irene Winifred Vacaville
1 LS-1632 Spruce st Bkly 570J
- Jones, Marion Helen Santa Barbara
2 LS-2627 Hearst av Bkly 4009
- Jones, Marion Thomas Morgan Hill
3 Com-2605 Durant av Bkly 6981
- Jones, Mildred Marion Oakland
2 LS-620 Mariposa av, O Pied 4139J
- Jones, Miriam Adelaide Berkeley
1 LS-2122 Durant av
- Jones, Nathaniel Morrison Campbell
1 CE-1846 University av
- Jones, Ottiwell Wood, Jr. San Anselmo
4 LS and 1 Med-2627 Ridge rd Bkly 2541
- Jones, Percival Cambridge, Mass.
1(1) 3 LS-2529 Fulton st
- Jones, Ruth Gleason Santa Clara
2 LS-1932 Home st Bkly 4795W
- Jones, Shirley Lynette Santa Paula
4 LS-1632 Spruce st Bkly 570J
- Jones, Victor Lee Yucaipa
4 CE-2601 Durant av Bkly 23
- Jones, William Horace San Francisco
2 LS PreM-720 Lake st, S F Pac 6492
- Jones, Wilson Stephens Los Angeles
3 LS and 1 Juris-2522 Ridge rd Bkly 5950
- Jongeneel Adriana San Rafael
4 LS-2485 Hilgard av Bkly 6406
- Jongeneel, Albert Martin San Rafael
1 LS-2701 Hearst av Bkly 2421
- Jongeneel, Elizabeth San Rafael
2 LS-2435 Hilgard av Bkly 6406
- Jopson, Lealie Carlyle Trowbridge
2 CE-1935 Bancroft way Bkly 4458W
- Jordan, Harvey Haskell Santa Cruz
1 LS PreL-2112 Addison st
- Jordan, Hester F Huntington Park
3 LS-2512 Benvenue av Bkly 8660
- Jordan, John Stanley San Francisco
1 LS PreL-110 Twentieth av, S F Bay View 1797
- Jordan, Marion Elizabeth Alameda
2 LS PreL-2419 Durant av Bkly 9149
- Jordan, Roscoe Esmond Orvis
2 LS PreL-2419 Durant av Bkly 9149
- Jordhay, William Ferdinand Berkeley
1s Mec-2332 Ninth st
- Jorgensen, Harold Ernest San Francisco
4 CE-781 Castro st, S F Valen 6631
- Jorgensen, Thelma Marie San Francisco
1 LS-1367 Sixth av, S F Sost 1851
- Joyce, William Keller Berkeley
2 Com-2316 Bowditch st Bkly 1416
- Judson, Dorothy New York, N. Y.
2 LS-2250 Fulton st Bkly 2250
- Judson, Juna Alameda
1 LS-1511 Central av, A Ala 3861
- Jue, Kwong Shue Los Angeles
4 LS and 1 Juris-2504 Regent st Bkly 3893J
- Jue, Sue Bruce San Rafael
1 Mec-1919½ Addison st
- Julinson, Elsie Adrine Los Angeles
4 LS-2632 Durant av Bkly 5137W
- Jumper, Royal Thiesen Balboa
1 CE-4701 Adeline st, O
- Junca, Marie Anna Alameda
1 LS-2811 Encinal av, A Ala 69
- Jund, Madeline Marie Oakland
1 LS-4401 Telegraph av, O Pied 1110
- Jung, Elsa Louise Oakland
2 LS-417 Thirty-eighth st, O Pied 466
- Jury, John Clare San Jose
2 LS PreL-2521 Channing way Bkly 9906
- Jussen, Edmund, Jr. Berkeley
3 LS-2546 Warring st Bkly 316W
- Jussen, Jean Peabody Berkeley
2 LS-2546 Warring st Bkly 316W

- Kaar, Harold Wright Berkeley
1 Com-2226 Carlton st Bkly 8929W
- Kadow, Robert John Los Angeles
2 CE-2605 Durant av Bkly 6981
- Kaehler, Dorothy May Beverly Farms, Mass.
23 LS-2723 Durant av Bkly 9531
- Kaelin, Consuelo Louise Berkeley
21 LS-2908 Elmwood court Bkly 4235J
- Kahan, Harry Los Angeles
(1) 2 Com-2226 Telegraph av
- Kahl, Minnie Nevada City
21s LS-611 Twenty-second st, O Lkad 4015
- Kahn, Arthur J. San Francisco
3 Chem-2032 Green st, S F Flmr 3608
- Kahr, Julius, Jr. San Francisco
2 Chem-2240 Telegraph av Bkly 1249
- Kahn, Sidney Philip Redwood City
1 LS-Hotel Whitecotton Bkly 7300
- Kahn, Thelma Lurline Berkeley
4 LS-2500 Durant av Bkly 540W
- Kaiser, Charles Lawrence Coalinga
3 Min-2527 Ridge rd Bkly 6107
- Kaiser, Lillian Margaret San Jose
23 LS-2214 Dana st Bkly 5043W
- Kaler, Edith Isabella Mantion
8 LS-1901 Milvia st Bkly 7221W
- Kaloudsian, Edward Seville
2 OE-2635 Channing way Bkly 1895
- Kamp, David Starr San Francisco
4 LS-2214 Dana st Bkly 1847
- Kan, Edward Tinloy Grass Valley
2 LS PreM-17 Stone st, S F
- Kane, Norine Petronilla Watsonville
1 LS-1621 Scenic av Bkly 5102
- Kaney, James Bennett Chico
8 LS PreL-2600 Durant av Bkly 1731W
- Kaney, Thomas Mervyn Chico
2(1) 2 LS PreL-2600 Durant av Bkly 1731W
- Kantor, Peter Adolph Mill Valley
2 Agr-2627 Ridge rd Bkly 2541
- Kapp, Russell William San Jose
2 LS PreM-2601 Durant av Bkly 28
- Kapp, Spencer Shepard San Jose
3 LS-2521 Channing way Bgly 9306
- Karahadian, Richard Dick Selma
1 Chem-2635 Channing way Bkly 1895
- Karasick, Pherra San Francisco
2 LS-525A Fifty-ninth st, O
- Kashevaroff, Mary Andreavna Juneau, Alaska
1 LS-2601 Benvenue av Bkly 6304J
- Kassab, Leon George Fresno
3 LS PreM-2418 Dana st Bkly 8814W
- Kaster, Howard B Salem, Ore.
2 Mec-1736 Hearst av Bkly 9559W
- Kather, Karl Edgar Napa
1 Mec-1711 Euclid av Bkly 3878
- Katten, Edythe Selling San Francisco
24 LS-1331 Tamalpais av Bkly 7906J
- Kauffman, Helen Louise Berkeley
2 LS-2828 Cherry st Bkly 8759J
- Kauffman, Mary Barbara Los Angeles
3 LS-2502 Dana st Bkly 423J
- Kaufman, Ellen Claire Berkeley
1 LS-1245 Spruce st Bkly 4424W
- Kaufmann, Irwin Leo. San Francisco
23 LS PreL-449 Thirty-ninth av, S F Pac 5095
- Kaufmann, Robert Willatowski Berkeley
1 LS PreM-3021 Hillegass av Bkly 8465W
- Kaun, Val Gretchen Chicago, Ill.
1s LS-2705 Hearst av Bkly 745J
- Kaupp, Raymond Theodore Wenatchee, Wn.
2(1) 3 LS PreM-2601 Durant av Bkly 28
- Kavanagh, John Forbes San Francisco
21 Chem-135 Westwood dr, S F Rndh 898
- *Kawasaki, Benjamin Shinobu Fresno
4 LS PreA-1739 Euclid av Bkly 6441
- Kawashima, Aico Berkeley
21s LS-2240 Rose st Bkly 1057
- Kawashita, Masuichi Japan
1 LS PreA-1739 Euclid av Bkly 6441
- Kaye, Virgil Lewis South Pasadena
(1) 4 LS PreL-2429 Grove st Bkly 2924W
- Kearney, Helen Anna Berkeley
4 LS-2247 Eunice st Bkly 6881
- Kearney, Kenneth Williams Berkeley
1 LS PreL-2247 Eunice st Bkly 6881
- Kearns, Helen Anita San Francisco
4 LS-1040 Green st, S F Frkn 920
- Keasbey, William Pothier Sacramento
1 Min-1736 Hearst av Bkly 9559W
- Keeler, Carl Arthur Arroyo Grande
1 LS-2125 Channing way Bkly 8568J
- Keeler, Frank Drew Los Angeles
21 LS-2200 Dwight way
- Keeler, Horace Terry St. Helena
2 LS-2001 Allston way Bkly 6710
- Keeler, William Norton Portland, Ore.
3 LS PreL-2345 College av Bkly 62
- Keen, Alice Boyd San Diego
3 LS-2500 Durant av Bkly 9146J
- Keenan, John Redmond Los Angeles
1 LS PreL-5604 Beaudry st, Emeryville
- Keisai, Nagai San Francisco
21 LS-2247 Channing way Bkly 1678
- Keith, Alma Kathryn San Francisco
2 LS PreL-2421 LeConte av Bkly 3062
- Keith, Gordon L. San Andreas
3 Mec-2717 Haste st
- Keith, Harry George Santa Barbara
(1) 2s Agr-1932 Home st Bkly 4795

- Keith, James Newton Riverside
3 Mec-2605 Durant av Bkly 6981
- Keith, John Henry Riverside
2 Mec-2605 Durant av Bkly 6981
- Keith, Marjorie Casper, Wya.
(1) 3 LS-2330 College av Bkly 1803
- Keith, Robert Ross Riverside
(1) 2 Mec-2605 Durant av Bkly 6981
- Keith, Rose Sedgwick Calistoga
4 Agr-3601 Telegraph av, O Pied 4131J
- Kellberg, Frederick William Oakland
1 CE-635 Fourteenth st, O
- Keller, Frances Maurine Orange
1 LS-2511 Durant av Bkly 1762W
- Keller, Frederick Marshall Los Angeles
1 LS-1815 Highland pl Bkly 1682
- Keller, Mina Elizabeth Santa Rosa
3 LS-1436 Hawthorne ter Bkly 2471W
- Kelley, Grace Seymour South Pasadena
1 LS-2417 LeConte av Bkly 5650
- Kelley, Howard Allen So. Pasadena
2 LS-2529 College av Bkly 7875W
- Kelley, Lela Elizabeth Lodi
1 LS-2015 Parker st Bkly 1566W
- Kelliher, Harry Artell Lompoc
1 Com-2401 Durant av Bkly 6504
- Kelling, Vesta Marie Seattle, Wn.
1 LS-2315 Dwight way Bkly 4026
- Kellogg, Elfreda Emilie San Francisco
4 LS-431 Tenth av, SF Pac 2161
- Kellogg, Florence Elizabeth Marshalltown, Idaho
(1) 3 LS-2400 Piedmont av Bkly 5224
- Kellogg, Frank Leslie Salinas
1s Mec-2627 Ridge rd Bkly 2541
- Kellogg, Frank Lesslie Santa Barbara
1s Mec-2039 Shattuck av Bkly 4929
- Kellogg, Frederick Vernon Santa Rosa
2 Agr-2401 Durant av Bkly 6504
- Kellogg, Louise Oakland
2 LS-5888 Chabot rd, O Pied 2408W
- Kellogg, May Santa Barbara
(1) 4 LS-2542 Durant av Bkly 1364
- Kelly, Agnes Martinez
3 LS-122 Panoramic way Bkly 7713
- Kelly, Dana Berkeley
2 (1) 3 LS PreM-2627 Hearst av Bkly 3229
- Kelly, Paul Brendan Bakersfield
4 LS-2120 Kittredge st Bkly 2090
- Kelsey, Chester C. Portland, Ore.
2 Com-2401 Durant av Bkly 6504
- Kelsey, Elbert Olin Ferndale
1 LS PreM-2647 Dwight way Bkly 5831
- Kelsey, George Powers Berkeley
2 Agr-2215 Ellsworth st Bkly 1468W
- Kelsey, Keith San Francisco
1 Mec-1415 Grove st, O Oakd 2401
- Kemble, Geneva Shaw Berkeley
21s LS-2239 Central av, A Ala 2811J
- Kemp, Edward Ashley Suisun
1 Mec-2521 College av Bkly 5870W
- Kemp, Harold Beanston San Francisco
3 Com-3765 Clay st, S F Pac 8812
- Kemp, Margaret Lucille Los Angeles
4 LS-2620 Benvenue av Bkly 7380W
- Kemp, Nell Prince Roswell, N. M.
2 LS-2533 Durant av Bkly 665
- Kemp, Thatcher John Los Angeles
3 LS PreL-2713 Haste st Bkly 78
- Kemper, Dorothy Bryant Los Angeles
4 LS-2537 Benvenue av
- Kemper, Mary Elizabeth East Auburn
1 Com-2229 Carlton st Bkly 1069J
- Kemper, Paul Louis East Auburn
1 Agr-2229 Carlton st Bkly 1069J
- Kendall, Constance Gerrie Los Angeles
4 LS-2017 Lincoln st Bkly 4706J
- Kendall, Helen Elizabeth Modesto
2 LS-2821 Bancroft way Bkly 1765
- Kendall, Howard Ramer Holtville
2 Mec-2647 Dwight way Bkly 5831
- Kendall, Jean Ingelow Spokane, Wa.
2 (1) 3 LS-2704 Channing way Bkly 6814J
- Kendall, Virginia Elizabeth Los Angeles
1 LS-2732 Channing way Bkly 7026
- Kennedy, Aileen Sullivan Berkeley
1 LS-2689 Cedar st Bkly 2739W
- Kennedy, Anna Belle Berkeley
1s LS-Head of Canyon rd Bkly 7100
- Kennedy, Anna Pauline Berkeley
3 LS-1192 Arch st Bkly 1050W
- Kennedy, Claire Marie Berkeley
3 LS-2630 Dana st Bkly 2739W
- Kennedy, E. Edna Berkeley
2 LS-2210 Atherton st Bkly 4698
- Kennedy, Edward Bell Pomona
2 LS-2426 Virginia st Bkly 564
- Kennedy, Harold Woodworth Pomona
1 LS PreL-2647 Durant av Bkly 102
- Kennedy, Laurence Baldwin San Francisco
1s Mec-2529 Ellsworth st Bkly 6886
- Kennedy, Milton Clair Berkeley
2 Com-1192 Arch st Bkly 1050W
- Kenney, William George Taft
1 LS PreL-2621 Haste st
- Kenny, Marcelline Grass Valley
2 LS-6016 Harwood av, O
- Kenny, Rita Veronica Oakland
1 LS-285 Moss av, O
- Kenny, Wallace Franklin Berkeley
2 Chem-2519 Ashby av Bkly 1353W
- Kent, Fred Dewey Bakersfield
3 CE-2614 Dwight way
- Kent, John Dearborn Poway
4 LS-Elks Club Bkly 1002

Kent, Marie Lew	Alameda	Kidder, Zinie Hodgdon	Berkeley
1s LS-2245 Central av, A	Ala 1803	1 LS-2712 Regent st	Bkly 8788J
Kenworth, Walter M.	Los Angeles	Kidson, Louise Lanette	Los Angeles
1 Mcc-2634 Fulton st	Bkly 8605W	1 LS-2627 Hearst av	Bkly 4009
Kenworthy, Ruth Arnold	Los Angeles	Kidwell, Harold Wadsworth	Berkeley
12 LS-2519 Ridge rd	Bkly 7614	4 Mcc-2011 Channing way	Bkly 644
Kenyon, Zona Elizabeth	San Diego	Kieldsen, Helen	Boise, Idaho
3 LS-2627 Hearst av	Bkly 8329	4 LS-1700 Euclid av	Bkly 6789
Ker, Minnette A.	San Francisco	Kiessig, Frederick William	Sacramento
2 LS-117 Lyon st, S F	Park 1700	4 LS and 1 Juris-2200 Piedmont av	Bkly 6681
Kerchen, Sadie Alice	Berkeley	Kilburn, Fannie Fern	Los Angeles
1 LS- U. C. Cottage No. 5	Bkly 1762J	1(1) 2 LS-2624 Virginia st	Bkly 8663
Kergan, Marian	Oakland	Kilburn, Harvey Maher	Los Angeles
3 LS-469 Van Buren st, O	Oakd 2498	4 Agr-University Farm, Davis	
Kern, Russell Allen	Berkeley	Kilburn, Irene	Saskatoon, Canada
8 Com-2530 Chilton way	Bkly 4203	3 LS and 1 Juris-368 Sixtieth st, O	Pied 2021W
Kerr, Anita	Redlands	Kilduff, Raymond	San Francisco
1 LS-Euclid apts	Bkly 7521W	1 LS PreM-3861 Washington st, S F	Pac 4433
Kerr, Dorothea Jackson	Los Angeles	Kilgarif, Lorna Margaret	San Francisco
(1) 3 LS-2428 Channing way	Bkly 6408	2 LS-2723 Durant av	Bkly 9531
Kerr, E. Louise	Coalinga	Kilgariff, Helen Regina	Sacramento
8 LS-2362 Woolsey st	Bkly 8785J	1s LS-353 Cornwall st, S F	Pac 5226
Kerrigan, Hanlon P.	Marysville	Kilkenny, Loretta Margaret	East Oakland
1 Com-1929 Thirty-fifth av, O	Frvl 1717J	1 LS-1837 Eleventh av, O	
Kervin, Edward Herbert	San Francisco	Killian, Clay	El Monte
1 Mcc-1144 Larkin st, S F	Frkn 8051	2 LS-2713 Haste st	Bkly 78
Keshishian, Leo Edward	Berkeley	Killian, Ruth	Santa Monica
1s Mcc-2802 Grant st		1 LS-1821 Scenic av	Bkly 577W
Keener, Roy Clark	San Francisco	Kilpatrick, Thomas Hilliard	Oakland
1 Com-2647 Durant av	Bkly 102	2 LS-2717 Hearst av	Bkly 5770
Kessler, Irma	Berkeley	Kim, Young Kun	Munkyeong, Korea
2 LS-2117 Woolsey st	Bkly 1354	2 LS-2600 Hilgard av	Bkly 5747
Kessler, Kenneth Loren	El Centro	Kimball, Elias Smith, Jr.	San Diego
1 LS-2404 Bancroft way		4 Agr-University Farm Davis	
Kessler, William Hoag	San Francisco	Kimball, Harry Raymond	Fresno
1 LS PreL-1939 Clay st, S F	Frkn 1694	(1) 3 Mcc-2642 Bancroft way	Bkly 653
Ketjen, Frederique Willink	San Francisco	Kimball, Marston Henthman Weiser, Idaho	
2 LS-318 Parnassus av, S F	West 8274	3 Agr-University Farm, Davis	
Kett, Laurance Temple	Berkeley	Kimball, May Charlotte	Berkeley
2 Min-46 El Camino Real	Bkly 1760	4 LS-2709 Channing way	Bkly 8528
Kawin, Mona	Modesto	Kimball, Thomas Bisbee	Santa Cruz
2 LS-1477 Alice st, O	Oakd 8040	1 Chem-623 Fifty-fifth st, O	Pied 5169
Keyes, Edna Frances	Fresno	Kimble, Russell William	Los Angeles
3 LS-2119 Addison st	Bkly 5867W	2 Agr-2646 Dwight way	Bkly 4104
Keyes, Horace Lyndon	Los Angeles	Kinchelos, Clarence Lee	Fresno
1 Com-2632 Channing way		1 LS PreL-2600 Durant av	
Keyser, William Henry	Carson City, Nev.	Kinell, Ruth	Berkeley
1 Mcc-2307 Hearst av	Bkly 6815	4 LS-2211 Stuart st	Bkly 5832
Kibre, Adele	Los Angeles	King, Christine Karen Miller	Newport Beach
3 LS-1809 Euclid av	Bkly 1615	(1) 3 LS-2227 Dana st	Bkly 1652W
Kidd, Kay Kelso	Taft	King, Clarence Rigg	Hinkley
2 OE-2229 Channing way		2 Min-2227 Dana st	Bkly 1652W
Kidder, Louise Libbey	Berkeley		
1s LS-2712 Regent st	Bkly 8788J		

- King, Clinton Samuel Hayward
4 Mec-2432 College av Bkly 2627W
King, Deborah Hollister
(1) 8 LS-2421 Durant av Bkly 1503W
King, Eleanor Maude Sacramento
4 LS-1035 Euclid av Bkly 6443
King, Frances Irene Savage Whittier
4 LS-2736 Haste st Bkly 8680
King, Frederick Lincoln Berkeley
1 Agr-1802 LeRoy av Bkly 4483
King, Harold William San Francisco
1 Mec-2522 Warring st Bkly 2995J
King, James Albert Oakland
11 LS-601 Twenty-fifth st, O Oakd 1709
King, Neil Patterson Denver, Colo.
(1) 8 LS-1809 Euclid av Bkly 1615
King, Norine Walton Trinidad, Colo.
11 LS-435 Sunny Slope, O Pied 2894
King, Paul Meany Oakland
2 LS-4806 Lawton av, O Pied 4199W
King, Reginald Hart Fresno
2 Chem-2112 Addison st
King, Robert Edwin Pomona
1 Com-2248 Telegraph av Bkly 9011
King, Vernon Rupert Oakland
1 LS PreL-4161 Howe st, O Pied 5019J
King, Zoe San Francisco
1 LS PreM-2721 Haste st Bkly 8800
Kingsley, Charles Edward San Francisco
1 Agr-28 Currier st, S F
Kinkelin, Marie Stella San Francisco
8 LS-2725 Channing way Bkly 7950
Kinley, Harriet Josephine Denver, Colo.
(1) 4 LS-2314 Dwight way Bkly 9140J
Kinnear, Hester May Newman
2 LS-2421 LeConte av Bkly 3062
Kinney, Ida Bernadette San Francisco
8 LS-1102 Masonic av, S F Park 5278
Kinney, Kathleen Trowbridge Berkeley
13 LS-2401 Warring st Bkly 2022
Kinney, Lorene Piedmont
1 LS-358 Hillside av, P Pied 7532
Kinney, Mona May Oakland
2 LS-4118 Agua Vista st, O Frvl 1465J
Kinsey, Aurelius Raphael Los Angeles
11s LS PreL-2734 Forest av Bkly 3484J
Kinspel, Gladys Marian San Francisco
2 LS-2418 College av Bkly 4440
Kip, Lucille Annabel Brooklyn, N. Y.
1 LS-2429 Hilgard av Bkly 1700J
*Kirk, Harris Crozer Berkeley
4 LS-1815 Highland pl Bkly 1682
Kirk, Joshua Paul Goodsprings, Nev.
1 Min-2717 Hearst av Bkly 5770
Kirk, Mary Alberta Berkeley
2 LS-1927 Francisco st Bkly 2444W
Kirkbride, Gael Evelyn Tulare
11 LS PreM-846 Railroad av, S F Men 7126
Kirkland, Ruth Hazel Long Beach
(1) 8 LS-2520 Durant av
Kirkland, Stanley Hillhouse Battle Creek, Mich.
1 Com-2419 McKinley av Bkly 9571J
Kirkpatrick, Florence Dean Ontario
4 LS-2421 LeConte av Bkly 3062
Kirkpatrick, Raymond John Hynes
1 LS PreL-2508 Haste st Bkly 767
Kirmond, Harry Reedley
12 Min-1835 Delaware st Bkly 1266J
Kirschner, Ernest Louis Portland, Ore.
11 Com-Oxford apts Bkly 2385W
Kissane, Marie Aileen San Francisco
3 LS-130 Twenty-first av, S F
Bay View 1023
Kistler, John Amandus Santa Rosa
2 Mec-2107 Hearst av Bkly 2421
Kita, Andrew K. Berkeley
8 LS-1739 Euclid av Bkly 6441
*Kitagawa, Masae San Francisco
4 Com-2112 Virginia st
Kitchel, Gladys Crane Oakland
11 LS-2265 E Nineteenth st, O Frvl 1099W
Kitchen, John Harold Oakland
2 Mec-895 Fifty-ninth st, O Pied 1944J
Kitsuda, Henry Yoshiaki Los Angeles
1 Mec-1739 Euclid av Bkly 6441
Kittredge, Mabel Berkeley
2 LS-2606 Bancroft way Bkly 2617
Kittredge, Perry Berkeley
14 LS-2606 Bancroft way Bkly 2617
Kitts, Wesley Bradbury Los Angeles
1 Mec-2420 College av Bkly 906J
Kitzmillier, Donald Mitchell Berkeley
2 LS PreL-2409 College av Bkly 6393J
Klahn, Gladys Marie Durango, Colo.
1 LS-1719 Euclid av Bkly 7844J
Klein, Dorothy Beas Berkeley
8 Com-2821 Hillgass av Bkly 6036W
Klette, Muriel Marie Fresno
(1) 2 LS-2821 Bancroft way Bkly 1765
Kliwer, Marianna A. Reedley
3 LS PreM-1632 Spruce st Bkly 570J
Kline, Anna Margaret Turlock
3 LS-2417 LeConte av Bkly 5650
Klingaman, George LeRoy Los Angeles
14 Min-1726 Euclid av Bkly 6706
Klitgaard, Norma Dortha San Francisco
2 LS-109 Sixth av, S F Pac 1086
Klockars, Mabel Ruth North Bend, Ore.
1 LS-2617 Etna st Bkly 1041
Klusmire, Pearl Esther Topeka, Kana.
1 LS-1811 Rose st
Klyce, Eugene Benjamin Los Angeles
1 Com-2411 Durant av Bkly 3071
Knapik, Edward M. Oakland
3 CE-1431 West st, O Lnd 372

- Knapp, Helen Louise Los Angeles
2 LS-2510 College av Bkly 436J
- Knaus, Russell Vernon San Francisco
13 Chem-154 Tenth st, S F Park 2846
- Knecht, Erma Jane Los Angeles
11 Com-2330 College av Bkly 1803
- Knecht, Katherine Loene Los Angeles
1 LS-2627 Hearst av Bkly 3229
- Knecht, Theo Harriet Los Angeles
3 LS-2627 Hearst av Bkly 3229
- Kneiss, Gilbert Harold Oakland
2 Mec-1150 Clay st, S F Frkn 1654
- Knight, Alfred Wheelock Glendale
13 Chem-2425 LeConte av Bkly 4834
- Knight, Benjamin Bliss Santa Cruz
3 Mec-2601 Durant av Bkly 23
- Knight, Evelyn Loder Salt Lake City, Utah
2 LS-2415 McKinley st Bkly 7269J
- Knight, Frances Oakland
1 LS-167 Grand av, O Lkd 3543
- Knight, Helen Elizabeth Hood River, Ore.
3 LS-2731 Regent st Bkly 2075
- Knight, Laurence Ewing Mendocino City
2(1) 3 Com-2240 Telegraph av
- Knight, Thomas Lincoln San Diego
2(1) 3 LS-2162 Center st Bkly 9274W
- Knoop, Anna Marie Berkeley
2 LS-2546 Haste st Bkly 4983J
- Knopf, George Oakland
4 LS and 1 Med-238 Oakland av, O Lkd 1305
- Knopf, Harry Oakland
4 LS and 1 Med-238 Oakland av O Lkd 1305
- Knott, Martha Morris Salt Lake City, Utah
3 LS-2515 LeConte av Bkly 4561
- Knowles, Annis B. C. Berkeley
11 LS-1924 Woolsey st
- Knowles, Edward Taylor Oakland
1 Mec-2329 Hughes av, O Frvl 1357W
- Knowles, Frances Elizabeth Oakland
3 Com-2236 Grove st, O Oakd 2918
- Knowles, Howard Macomb, Ill.
(1) 4 LS-1640 Euclid av Bkly 7057
- Knowles, Squire Warren Berkeley
1 Mec-2215 Telegraph av Bkly 372
- Knowlton, Naomi Coquille, Ore.
4 LS-2511 Durant av Bkly 1762W
- Knox, Ellis Oneal Lakeport
3 LS PreM-1600 Woolsey st Bkly 8449W
- Knox, Landes Maxwell Houston, Tex.
2 LS-1815 Highland pl Bkly 1682
- Knox, Marien South Pasadena
2 LS-2223 Dana st Bkly 1652W
- Knudsen, Arthur Lockeford
11 LS PreM-Hotel Herald, S F
- Knudsen, Herluf Albert Oakland
12 CE-3772 Webster st, O
- Knudsen, Otto Chresten Berkeley
11 Com-Oxford apts Bkly 6262W
- Knudsen, Ruth Pickett Berkeley
2 LS-5 Panoramic way Bkly 4949
- Knudson, Thaddeus Los Angeles
12 LS-2332 College av Bkly 1184
- Knudson, Thurston Pendroy Los Angeles
4 LS-2332 College av
- Knust, Doris Vailbrough San Francisco
11 LS-690 Oak st, S F Park 191
- Koch, Dorothy Ann Berkeley
1 Agr-2043 Berryman st Bkly 5144W
- Koch, Henrietta Sophia Oakland
21s LS-56 Eleventh st, O
- Koch, Karl William Sacramento
3 LS-University Farm, Davis
- Koch, Otto Ernest Monrovia
(1) 2 LS-1600 Walnut st
- Koch, Thomas Warman Berkeley
1 Min-2043 Berryman st Bkly 5144W
- Kocher, Kathryn Augusta Berkeley
(1) 3 LS-2711 Dana st Bkly 3704
- Koepsel, Helen Jewel Berkeley
3 LS-2360 Ellsworth st Bkly 4098W
- Kofoed, Elvira Fay Caruthers
11 LS-2616 Etna st Bkly 1059
- Koford, Edward Thomas Santa Rosa
2 LS PreL-2174 University av Bkly 3067J
- Kohlmoos, Caroline Brandt San Francisco
12s LS-1208 Milvia st Bkly 5754
- Kohlmoos, Hermann San Francisco
3 CE-1208 Milvia st Bkly 5754
- Kohls, Clara Lydia San Francisco
1 LS PreM-835 O'Farrell st, S F Popt 1220
- Kohls, Hedwig Verena San Francisco
1 LS PreM-835 O'Farrell st, S F Popt 1220
- Kollmyer, Margaret Alameda
1 LS-2433 Haste st Bkly 7883W
- Kompf, Louis Mill Valley
11 Chem-Mill Valley MV 123W
- Kongatvedt, Sigurd Asbyrn San Francisco
1s Agr-465 Eleventh av, S F Pac 371W
- Koorreman, Johannes Leendert Holland
2(1) 3 Mec-2115 Delaware st Bkly 9399
- Koppe, August Paul Coronado
1 Chem-2246 Fulton st
- Korell, Alice Claire Alameda
11 LS-2050 Encinal av, A Ala 289J
- Korn, Emma Tofanelli San Francisco
1s LS and 1 Juris-2306 Leavenworth st, S F Frkn 6296
- Korthals, Martinez T. B. San Francisco
2 LS PreM-2431 College av Bkly 1415J
- Korvin-Kroukovsky, Eugenie Berkeley
2 LS-2527 Hearst av
- Koser, Elizabeth Oakland
1 LS-214 Hillside av, P Pied 8691J

- Kositz, Lillian Los Angeles
(1) 3 LS PreM-2597 Buena Vista way Bkly 6085
- *Koski, Helmi Marja Helsinki, Finland
4 LS-880 Union st, S F Pspt 4588
- Kosunen, Fred Berkeley
*1 CE-1709 Delaware st Bkly 7572
- Kott, Freda San Antonio, Tex.
1 LS-2703 Forest av Bkly 3700
- Kouliaeff, Constantine John Harbin, Manchuria
2 Com-2321 Vine st Bkly 9158W
- Kouliaeff, Innocent John Harbin, Manchuria
2 Chem-2821 Vine st Bkly 9158W
- Kower, Eugene Berkeley
*3 Mec-2417A Bancroft way Bkly 1652J
- Kraft, Kathryn Elizabeth San Rafael
8 LS-2714 Ridge rd Bkly 9098
- Kraft, Magdalena Lodi
3 LS-2538 Durant av Bkly 665
- Krag, Wilma Parlier
3 LS-1632 Spruce st Bkly 570J
- Krans, Herman San Francisco
2 Mec-2248 Telegraph av Bkly 9011
- Krasny, Frank Charles La Mesa
*4 Mec-1920 University av
- Krasovskiy, Valery M. San Francisco
*1 Agr-522 Hyde st, S F
- *Krause, Anna Los Angeles
4 LS-1531 Arch st Bkly 375W
- Krause, Lucille Gladys Fullerton
2 LS-Berkeley Inn Bkly 6370
- Krauss, Dorothea Hilmer Petaluma
*1 Agr-2527 Channing way
- Krebs, Beth Pasadena
2 LS-2723 Durant av Bkly 9581
- Krebs, Clarence Edward Farmington
3 Min-2001 Allston way Bkly 6710
- Kriewaldt, Martin Rudolph Requa
2 LS PreL-2212A Union st Bkly 7611
- Kristich, Peter Daniel Berkeley
3 CE-1517 Alcatraz av Pied 8579W
- Kroeger, Ophelia Eleanor Oakland
3 LS-2619 Chestnut st, O
- *Krotosyn, Hilda J. San Francisco
4 LS-995 Sutter st, S F Frkn 270
- Krozak, Helen San Francisco
2 LS-242 Shotwell st, S F Mrkt 7838
- Kruse, Elizabeth Wethered Berkeley
1 LS-2727 Haste st Bkly 4354W
- Kruse, Henry Ross Portland, Ore.
2 Mec-1730 La Loma av Bkly 8716
- Kruse, Wesley August Healdsburg
*1s LS-2406 Dana av Bkly 7913
- Krusi, Priscilla Alden Alameda
*3 LS-2710 Channing way Bkly 9520
- Krusich, Georgia Norris Los Angeles
4 LS and 1 Med-2525 Durant av
- Ku, Shu Hsing Wusih City, China
2 LS-2823 Cragmont av Bkly 2927W
- Kubota, Kenzo Los Angeles
3 LS-2022 Dwight way Bkly 4393
- Kuck, Mildred Gould Vista
2 LS-2329 Channing way Bkly 4304J
- Kuhnle, Frank Herbert San Francisco
*1 CE-1028 Church st, S F Valen 3620
- Kulakofsky, Eudice Charolette Sioux City, Iowa
1 LS-2627 Hearst av Bkly 8229
- Kulberg, Oscar N. Petaluma
2 CE-1640 Euclid av Bkly 7057
- *Kunsmann, Leof Mills Los Gatos
4 LS-2235 Durant av Bkly 7929
- Kunze, Karolus Elwyn San Jose
2 Chem-2431 Dana st Bkly 547W
- Kuo, Joseph Charles Shanghai, China
2 LS-2418 Ellsworth st Bkly 6155W
- Kuo, Peng Honan, China
2 Chem-2600 Etna st Bkly 7593
- Kuo, Zing Yang Shanghai, China
8 LS-2418 Ellsworth st Bkly 6155W
- Kurita, Eljuro Los Angeles
2 Com-1739 Euclid av Bkly 6441
- Kurkjian, Reynold Fresno
1 LS-2635 Channing way Bkly 1895
- Kuroishi, Kamekichi Los Angeles
*1s LS-2040 Channing way Bkly 3523W
- Kuttner, Frances Rose San Francisco
1 LS-851 Post st, S F Frkn 969
- Kwo, Kwei-Tan Loyang, Honan, China
2 Mec-2600 Etna st Bkly 7593
- Kyle, Chester Richard Porterville
2 LS-2251 Telegraph av Bkly 3471W
- Kyle, Hugh Perry Los Angeles
1s Chem-1730 La Loma av Bkly 8716
- Kyle, Orva Marie Gridley
*1 LS-210 Alta Vista apts Bkly 3471W
- Kyle, William Forrest Porterville
2 LS-2251 Telegraph av Bkly 3471W
- La Barea, Adele Berkeley
1 LS-2201 Glen av Bkly 596
- Labarthe, Jules, III San Francisco
2 Chem-2715 Steiner st, S F Fmr 3648
- Lachman, Gertrude Dorothy San Francisco
4 LS-143 Fourteenth av, S F Pac 3926
- Lackey, Beth Porterville
1 LS-578 Thirty-fourth st, O Pied 1703
- Lackey, Harold Elwood Roseville
2 LS PreL-2223 1/2 Chapel st
- Lackey, Myron Elmo Roseville
3 LS and 1 Juris-2223 1/2 Chapel st

- Lackmann, Ernest Albin San Francisco
1 LS PreL-641 Fifteenth av, S F Pac 8966
- Lacombe, Elizabeth San Francisco
1 LS PreM-2249 College av Bkly 7035J
- Lacy, Helen Joy Berkeley
3 LS-1506 Edith st
- Lacy, Helen Sullivan South Pasadena
3 LS-2728 Durant av Bkly 9531
- Lacy, Roy Los Angeles
2 Agr-1815 Highland pl Bkly 1682
- Ladarré, Delphin Eugene San Francisco
1 Com-1612 Jones st, S F Frkn 9271
- Lafka, Catherine Salinas
1 LS-2627 Hearst av Bkly 3229
- La Flamme, Bernice Murial Berkeley
1 LS PreL-2032 Kittridge st Bkly 6830J
- La Fontaine, Merrill Grasse Los Angeles
1 LS PreL-1562 LeRoy av Bkly 8282J
- Lahann, Reimer Rankin Visalia
1 Agr-2915 Benvenue av Bkly 872J
- Laidlaw, Ashton Piedmont
*1 LS PreM-540 Boulevard way, P Oakd 2640
- Laidlaw, Irma Sacramento
1 LS-1060 Walker av, O Oakd 5692
- Laidlaw, Margaret Alice San Diego
1 LS-2721 Haste st Bkly 8800
- Laird, Joe R Los Angeles
*1 Com-2325 Dana st Bkly 8388W
- Lais, Carl Henry Sacramento
8 Com-2333 College av Bkly 1722
- Lalande, Bavard Hall Redwood City
*1 Min-2627 Ridge rd Bkly 2541
- Lalinde, Joaquin Matus San Francisco
*1s Chem-1822 University av Bkly 1283
- Laloue, Emily Dolores Alameda
*1 LS-2258 Encinal av, A
- Lamb, Denver Orren Fall Brook
1 Agr-2425 Hilgard av Bkly 522W
- Lamb, Hazel Hannah Oakland
*1 LS PreM-3411 Haley av, O Mer 3113
- Lamb, Helen Alameda
2 Com-1057 Ashmount av, O Lkcd 6152
- Lamb, Loris Maud Oakland
*1 LS PreM-3411 Haley av, O Mer 3113
- Lamb, Marie Sacramento
1 LS-2630 College av Bkly 7059J
- Lamb, Rhoda Cecelia Tonopah, Nev.
1 LS-2311 Bancroft way Bkly 214
- Lamb, Walter Frank San Francisco
2 LS PreA-730 Ninth av, S F Pac 7264
- Lambert, Alice Rhoda Eureka
1 LS-2417 LeConte av Bkly 5650
- Lamborn, Robert S. Alameda
2 LS PreL-1428 Morton st, A Ala 1694
- Lamiman, John Franklin Newcastle
2 Agr-2517 Regent st Bkly 3606W
- Lampert, Hazel New Orleans, La.
(1) 3 LS-2520 Durant av Bkly 1675
- Lampert, Helen Katherine New Orleans, La.
(1) 3 LS-2520 Durant av Bkly 1675
- Lampert, Lincoln Maximilian Oakland
2 Chem-1060 Eighteenth st, O Lkcd 144
- Lampton, Glen Trice Los Angeles
1 Mec-2415 Durant av Bkly 7429
- Lancaster, Elizabeth Spearman Willits
*1 LS-2627 Hearst av Bkly 3229
- Landa, Emily San Francisco
*2 LS-931 Dolores st, S F Valen 1589
- Landa, Norma San Francisco
2 LS-931 Dolores st, S F Valen 1589
- Lander, Jerry W. Exeter
*2 Agr-1932 Home st Bkly 4795W
- Lander, Mary Kathleen Exeter
2 LS-2029 Berkeley way Bkly 6321W
- Landon, Edith Mae Berkeley
*1 LS-2743 Woolsey st Bkly 4254
- Landon, Francis Lemon Berkeley
2 Mec-2245 Hearst av Bkly 6066W
- Landon, George McQueen San Francisco
2 LS-2521 Channing way Bkly 9306
- Landon, James Gardner San Francisco
3 Mec-2245 Hearst av Bkly 6066W
- Landram, Hughbert Hall Merced
2 LS-2508 Haste st Bkly 767
- Lane, Clayton Pasadena
(1) 8 LS-2411 Durant av Bkly 3071
- Lane, Dorothe Isadore Alhambra
*1(1) 2 LS-2627 Hearst av Bkly 3229
- Lane, Grace Echard Pomona
*1 LS-469 Sixty-sixth st, O
- Lane, Harold McKee Atascadero
*1 Mec-2415 Bowditch st Bkly 8650J
- Lane, Lulu Maude Atascadero
1 LS-924 Tenth st, O
- Lane, Marguerite Butte, Mont.
*1 LS-2228 Chapel st
- Lane, Virginia San Francisco
*3 LS-2725 Channing way Bkly 7950
- Laney, Grant Oakland
*1(1) 2 Agr-574 Twenty-ninth st, O
- Lang, Herbert Henry Berkeley
1 Min-2140 Los Angeles av Bkly 5012
- *Lang, Lilly Remsen, Iowa
4 LS-1802 LeRoy av Bkly 8457
- Langdon, Andrew Colusa
3 Mec-2701 Hearst av Bkly 2421
- Langdon, Joe Los Angeles
2 Com-1730 La Loma av Bkly 8716
- Lange, Joséé Paris, France
1s LS-2409 Virginia st Bkly 7155W
- Lange, Marjorie Max Madison, Wis.
(1) 2 LS-High Acres, Creston rd Bkly 6068W

- Lange, Stephanie Paris, France
4 LS-2409 Virginia st Bkly 7155W
- Langer, Alice Lucia Sacramento
(1) 2 LS-1912 Milvia st
- Langheldt, Meredith Lyle Laramie, Wyo.
1(1) 4 LS-1407 Sixth st, A
- Langhorne, Herbert Devall Alameda
1 LS-2425 LeConte av Bkly 4334
- Langhorne, John Devall Alameda
1 LS-2425 LeConte av Bkly 4334
- Langston, William Brooks Rusk, Tex.
1 LS-2248 Telegraph av Bkly 9011
- *Langstroth, Malin Thomas Oakland
4 LS-2251 College av Bkly 9107
- Lannan, Mary Los Angeles
3 LS-2417 LeConte av Bkly 5650
- Lantz, C. M. Beatrice Sunnyside, Wn.
4 LS-2727 Durant av Bkly 2211
- Lantz, Charles Chapman Los Angeles
2 LS-Hotel Whitecotton Bkly 7300
- Lantz, Vernon Berkeley
1 Chem-920 Tulare av Bkly 7776
- Lapeyri, Ferdinand James San Francisco
2 Agr-1221 Fell st, S F Mrkt 7283
- Largent, Rolland Emmett Berkeley
2 Agr-3008 Dana st Bkly 2556W
- Larkey, Jefferson Oakland
2 LS PreM-1017 Ashmount av, O Oakd 290
- Larkey, Sanford Vincent Oakland
3 LS PreM-1017 Ashmount av, O Oakd 290
- Larkin, Harold P. Alameda
2(1) 2 LS-2153 Clinton av, A Ala 2351W
- Larrabee, Ray Joseph Richmond
13 Min-840 Sixth st, R
- Larrecq, Maurice John Bakersfield
3 Mec-2248 Telegraph av Bkly 9011
- Larsen, Albert Edward San Francisco
3 LS PreM-2522 Ridge rd Bkly 5950
- Larsen, Signa Isabel Fresno
2 LS-2519 Ellsworth st Bkly 995J
- Larson, Raymond McCune Oakland
1 LS PreL-1821 Chestnut st, O Oakd 6723
- Larson, Ruby La Vina Lindsay
11 LS-Madison Park apts, O Oakd 3160
- Larson, Selma Kathryn Eureka
(1) 2 LS-Oxford apts Bkly 2385W
- La Rue, Annie Nelson Oakland
11s LS-3918 Lusk st, O Pied 8536W
- La Rue, Ralph G. Anaheim
1 Agr-2600 Bancroft way Bkly 1901W
- Lasher, Charles Arthur Los Angeles
(1) 3 LS and 1 Juris-2734 Forest av Bkly 3484J
- Laskin, Minda El Paso, Tex.
1(1) 2 LS-Hotel Whitecotton Bkly 7300
- Latham, George Alameda
3 LS-2522 Ridge rd Bkly 5950
- Lathrop, Clara Armenia Modesto
(1) 2 LS-1611 Euclid av Bkly 1185J
- Lathrop, Ruth Romona Berkeley
1 LS-2312 Rose ter Bkly 8030J
- Latimer, Bertha Lawrence, Kan.
4 LS-2833 Haste st
- Latta, Frances Gladys Geyserville
1 LS-711 Southdown av Bkly 7012W
- Latter, Doris Elizabeth Glendale
1 LS-1005 Fifty-fourth st, O
- Lauenstein, Alma Caroline Alameda
2 LS-1611 Central av, A Ala 652
- Lauenstein, Carl Albert Alameda
1 CE-1611 Central av, A Ala 652
- Lauenstein, Robert Frederick Alameda
1 CE-1611 Central av, A Ala 652
- Laughren, Catherine Mary Los Angeles
4 Com-2526 Hilgard av Bkly 1441
- Laurance, Marian Ardell La Junta, Colo.
1 LS-454 Sixty-fifth st, O
- Laurence, Carl Kingsley Los Angeles
1 LS PreA-5586 Lawton av, O
- Laurence, Christine San Francisco
1(1) 3 LS-2316 Allston way
- Lautenschlager, Vera E. Richmond
3 LS-2526 Hilgard av Bkly 1441
- Lauxen, Margaret Letitia Stockton
2 LS-2714 Ridge rd Bkly 9093
- Lava, Francisco Andres Diasdado
Bulacan, Philippine Islands
1 LS PreL-1822 University av Bkly 1283
- La Vigne, Francis Hudson Oakland
2 LS PreL-4021 Howe st, O Pied 1436
- Law, Helen Louise Berkeley
1 LS-2723 Durant av Bkly 9531
- Law, Ruth Mildred Berkeley
1 LS-1630 LeRoy av
- Lawrence, Alfred Francis Oakland
2 LS PreL-928 Thirty-seventh av, O Frvl 1816J
- Lawrence, Carl Kingsley Los Angeles
1 LS PreA-5586 Lawton av, O
- Lawrence, Christine San Francisco
2(1) 3 LS-2316 Allston way Bkly 7246
- Lawrence, Lynn George Berkeley
1 Min-2226 Chapel st
- Lawrence, Verna San Francisco
(1) 2 LS-2316 Allston way Bkly 7246
- Lawrence, Walter Petaluma
2 LS PreM-2647 Dwight way Bkly 5831
- Lawson, Clyde Eldred San Lorenzo
1 LS-San Lorenzo Hayward 41F3
- Lawson, James Albert Berkeley
2 LS-1815 Highland pl Bkly 1682
- Lawson, Theodore Carey Los Angeles
4 LS and 1 Med-1606 Milvia st Bkly 4902W

- Lawson, Viola Elizabeth Manchester
1 LS-2515 LeConte av Bkly 4561
- Lawton, Margaret Emily Hollywood
4 LS-2217 Channing way Bkly 2023J
- Lazarus, Helen Marian San Francisco
1 LS-2133 Lyon st, S F West 6923
- Lazear, William Houston Santa Barbara
4 LS-2907 Dwight way Bkly 2366J
- Lazier, Edgar Locke Santa Barbara
8 LS-2317½ Durant av Bkly 6043W
- Leach, Barbara Millicent Brawley
3 LS-2407 S Atherton st
- Leach, Margaret Elizabeth Piedmont
2 Com-125 Hillside av, P Pied 380
- Leach, Marjorie Wentworth Oakland
4 LS-2641 Channing way
- Leach, Ruth Mable West Burke, Vt.
¹¹ LS-1531 Scenic av
- Leadingham, Russell M. Los Angeles
(1) 3 Com-2412 Piedmont av Bkly 5098
- Leahy, Eleanora Nancy Upland
2 LS-2524 LeConte av Bkly 2531
- Lean, Lora Heckle Red Bluff
1 LS-688 Fairmount av, O Pied 6266J
- Leap, Clive S. Fresno
¹¹ Mec-2405 Fulton st Bkly 8525W
- Leap, George Norris Fresno
1 LS PreL-3008 Telegraph av
- Learnard, Tracy Wilder Gilroy
1 Agr-2315 Dwight way Bkly 4026
- Leary, Frances Kathryn Berkeley
1 LS-1053 Mariposa av Bkly 3872W
- Leavell, Gladys Louetta Lincoln
1 LS-2533 Durant av Bkly 665
- Leavens, Donna Richardson Pasadena
8 LS-1547 Euclid av Bkly 6681
- Le Baron, Eugene, Jr. Brawley
(1) 3 LS-2521 Hearst av Bkly 708
- Le Baron, Everell Merritt San Francisco
1 LS-2713 Haste st Bkly 78
- Le Baron, Louis Alfred Santa Barbara
3 Agr-University Farm, Davis
- Le Blond, Fred Los Angeles
2 LS-2412 Piedmont av Bkly 5098
- Le Breton, Louise Nantes, France
¹¹ LS-2804 Hilllegass av Bkly 3899
- Le Breton, Rebecca Prescott Buffalo, N. Y.
2 Agr-2243 Piedmont av Bkly 5543W
- Lechten, Alice Madeline San Francisco
¹¹ LS-2627 Hearst av Bkly 3229
- Le Conte, Louis Julian, Jr. Berkeley
¹¹ Mec-2501 Piedmont av Bkly 1239J
- Ledig, Margaret Elizabeth Ontario
1 LS-2624 Virginia st Bkly 8663
- Ledyard, Francis King Pasadena
1 LS-2625 Hearst av Bkly 9535
- Lee, Albert Clarence Berkeley
1 LS-1706 Walnut st Bkly 4276J
- Lee, Alma Keith Clovis
3 LS-1632 Spruce st Bkly 570J
- Lee, Beatrice Eleanor Los Angeles
³ LS-2727 Durant av Bkly 2211
- Lee, Bing Los Angeles
2 Chem-2401 Bowditch st Bkly 1908
- Lee, Chang Wah San Francisco
¹¹ Agr-952 Stockton st, S F China 458
- Lee, Cheung S. San Francisco
¹¹ LS PreM-870 Washington st, S F China 390
- Lee, Dorothy Mary Pasadena
3 LS-2736 Haste st Bkly 8680
- Lee, Frank Warne Los Angeles
4 LS-1281 Second av, S F Sntst 623
- Lee, Harvey Willmontion Los Angeles
2 Min-2228 Dana st Bkly 1053
- Lee, Howard Rodgers San Francisco
1 Mec-2231 Shattuck av Bkly 8147W
- Lee, James Richard Oakland
1 LS PreA-520 Alice st, O Lkcd 3708
- Lee, Jose Bawkmun Oakland
4 Mec-520 Alice st, O Lkcd 3703
- Lee, Mary Bo-Chee Oakland
3 LS-520 Alice st, O Lkcd 3703
- Lee, Oliver Roy Reedley
1 LS-1 Canyon rd Bkly 966
- Lee, Robert Bartlett Los Angeles
3 LS-2345 College av Bkly 62
- Lee, Sarah Docfon Oakland
4 LS-520 Alice st, O Lkcd 3703
- Lee, Susan Mary Boston, Mass.
¹¹ LS-Cloyne Court
- Lee, Yih Kong Shanghai, China
1 Com-2600 Etna st
- Leech, Sara Olive Los Angeles
2 LS-2537 Benvenue av
- Leedom, Samuel Reynolds Long Beach
1 Mec-2528 Ridge rd Bkly 3500
- Leege, Lillian Marie Los Angeles
(1) 4 LS-2400 Dana st Bkly 2388
- Lefell, Sidney Norman Oakland
1 Min-1747 Webster st, O Oakd 4309
- Le Hane, Kathryn Modesto
4 LS-2546 Chilton way Bkly 691J
- Le Hane, Louis Fredrich Berkeley
1 LS-2546 Chilton way Bkly 691J
- Le Hane, Ruth Modesto
4 LS-2546 Chilton way Bkly 691J
- Lehnhardt, Emil Henry M. Oakland
1 Chem-2703 Telegraph av, O Oakd 1847
- Lehrke, Alvin John San Francisco
¹¹ Chem-1338 Schrader st, S F Mrkt 2096

Leidig, Donald Mitchell	Madera	Lermen, John Jacob	San Francisco
2 Agr-1730 La Loma av	Bkly 8716	1 LS-2652 Pierce st, S F	West 4477
Leidig, Lois Lurline	Ogden, Utah	Lerned, Morris Boynton	Pasadena
1 LS-2400 Bancroft way	Bkly 6488J	2 LS-2625 Hearst av	Bkly 9535
Leidig, Phyllis Rebecca	Ogden, Utah	Leslie, M. Nadine	Selma
1 LS-2400 Bancroft way	Bkly 6488J	2 LS-2400 Bancroft way	Bkly 6488J
Leigh, Margaret	Sausalito	Leslie, Roland R.	Hollywood
3 LS-Treehaven apts	Bkly 8841W	4 Agr-2629 LeConte av	Bkly 5174J
Leisenring, Sara Beall	San Diego	Lessard, Mark Davis	Alameda
*2 LS-2527 Channing way		2 Med-1444 Eighth av, S F	
Leiser, Jesse Bryan	Spokane, Wn.	Letchworth, Edson Pierre, Jr.	Covina
8 LS-2538 Durant av	Bkly 8861W	*1 Mec-2518 Derby st	
Leisz, George William	Oakland	Le Tourneau, Nydia Helene	Berkeley
8 LS-425 Van Dyke av, O	Mer 1645	*3 LS-2643 Hilegass av	Bkly 6337W
Leisz, Ruth Anna	Oakland	Leung, Sui Pan	Berkeley
(1) 3 LS-425 Van Dyke av, O	Mer 1645	2 Com-2504 Regent st	Bkly 3893J
Leithhead, Donald Barker	Los Angeles	Leuschner, Richard Denicke	Berkeley
*2 Chem-2214 Channing way		1 Agr-1816 Scenic av	Bkly 2182
Leithhead, Queena Marjorie	San Francisco	Levendusky, Mary L.	San Francisco
2 LS-2731 Regent st	Bkly 2075	*3 LS-2235 Durant av	Bkly 7929
Leithold, Moreland	Woodland	Leverich, Dorothy Isabel	Oakland
4 LS-2601 Channing way	Bkly 5904	*1 LS-Frederick apts, O	Pied 5628W
Leland, Dorothy	San Francisco	Levi, Charles Veryl	Oakland
3 LS-1910 Vallejo st, S F	West 161	*1 LS PreA-1018 Filbert st, O	Lksd 1410
LeMare, Robert Walter	Iquique, Chile	Levin, Doris Power	San Francisco
*2(1) 2 Com-800 Fife bldg, S F	Krny 441	*1s LS-2560 Vallejo st, S F	Fimr 2996
Le Moin, Bernice Alyse	Lodi	Levin, Natalie Doris	Folsom
1 LS-2328 Bowditch st	Bkly 2152W	2 Com-2320 Bancroft way	Bkly 4676
Lenahan, Madelyn Gertrude	Suisun	Levin, Philip	San Francisco
4 LS-2937 Linden av	Bkly 8715J	*2 LS PreM-2618 Durant av	Bkly 2765
Lenahan, Regina Cecilia	San Francisco	Levis, Enid Florence	Kingsburg
2 LS PreM-634 Twelfth av, S F		*3 Com-815 Bush st, S F	
	Pac 2319	Levis, Mahlon	Kingsburg
Lenahan, William Jeremiah	Berkeley	4 Com-2235 Chapel st	
2 LS PreL-2937 Linden av	Bkly 8715J	Levitin, Joseph	San Francisco
Lendelof, Evelyn	San Francisco	2 LS PreM-1668 Page st, S F	Park 6718
1 LS-744 Ninth av, S F	Pac 4024	Levy, Bertram Paul	San Francisco
Lennon, Harry Burscough	San Francisco	2 LS-2630 Bancroft way	Bkly 4488J
*1 Com-946 Eddy st, S F	Frkn 16	Levy, Dorothy Belle	San Francisco
Lennon, Thomas Joseph	San Francisco	*1 LS-2420 College av	Bkly 906J
4 LS PreM-946 Eddy st, S F	Frkn 16	Levy, Edith Eileen	Oakland
Lents, Alfred Ernest	Roseville	1 LS-1104 Myrtle st, O	Oakd 7614
2 LS PreL-2202 Durant av		Levy, Edmund Lester	Oakland
Leonard, Charles Berdan	Oakland	3 LS PreL-3 Van Buren Court, O	
(1) 4 LS-846 E Sixteenth st, O	Mer 8097		Lksd 1519
Leonard, Edwin Stanley, Jr.	Oakland	Levy, Fred Marton	San Francisco
3 LS-474 Twenty-seventh st, O		1 LS PreL-791 Dolores st, S F	Man 934
	Oakd 3971	Levy, Jesse M., Jr.	Alameda
Leonard, Eugenie Andrus	Seattle, Wn.	1 Com-5317 Manila av, O	Pied 8194
4 LS-2439 Russell st	Bkly 8820J	Lew, Ling	Los Angeles
Leonard, Gladys Louise	San Francisco	3 LS-2504 Regent st	
1 LS-761 Dolores st, S F	Man 5859	Lewin, Bernhard	San Luis Obispo
Leonard Leland Lawrence	Dos Palos	2 LS PreM-2248 Telegraph av	
2 Com-2500 College av	Bkly 5942		Bkly 9011
Leonard, Richard Anthony	San Francisco	Lewis, Austin S.	Oakland
2 LS PreL-1147 Guerrero st, S F		*1 LS PreL-3103 Stuart st, O	Mer 2414
	Man 7198	Lewis, Boyd Roscoe	Muskogee, Okla.
Lercara, Violet Lovena	San Francisco	3 LS-2532 Etna st	Bkly 4729J
1 LS-1686 Broadway, S F	Frkn 6407		

- Lewis, Charles Hyde San Francisco
3 Min-125 Lyon st, S F Park 1984
- Lewis, Edna Towne Los Angeles
1s LS-2500 Bancroft way Bkly 1848
- Lewis, Evelyn Alice Los Angeles
2 LS-2564 Buena Vista way
- Lewis, Grace Alma Crockett
1 Com-1818 Blake st Bkly 3969W
- Lewis, Grace Ceala Berkeley
(1) 8 LS-2125 Prince st Bkly 2485J
- Lewis, Helen Marguerite Kerman
2 LS-2220 Union st Bkly 8469W
- Lewis, Henry Strohm Los Angeles
2 Com-2115B Durant av Bkly 7098J
- Lewis, Marian S. Los Angeles
(1) 2 Com-2115B Durant av Bkly 7098J
- Lewis, Saxon Austin Oakland
*1 LS PreL-3108 Stuart st, O Mer 2414
- Lewis, Walter Stuart Berkeley
4 Com-2601 Channing way Bkly 5904
- Leyrer, Miriam Mayhew Pacific Grove
2 LS-1515 Shattuck av Bkly 9462J
- Lichthardt, Mary E. P. Berkeley
*2s LS-1915 Milvia st Bkly 7943W
- Lidell, John Allayne Albion, Neb.
1 LS PreL-2910 Newbury st
- Liermann, Aubrey Frances Oakland
2 LS-188 John st, O Pied 2842W
- Lifshitz, Usher Hillelovich
Melitopol, Russia
*2 CE-2227 Dana st Bkly 1652W
- Light, Celeste Beatrice Berkeley
*1s LS-1704 Bancroft way
- Lighthouse, Gregory Aloysius Oakland
1 LS-2974 Telegraph av, O Lksd 3513
- Liles, Alice Jane Santa Cruz
*1s LS-2214 Dana st Bkly 5043W
- Lillard, William Raymond Winters
1 LS-2332 College av Bkly 1134
- Lilleland, Ole San Francisco
2 Agr-118 Highland av, S F Valen 2143
- Lilleland, Omund San Francisco
3 Agr-University Farm, Davis
- Lilley, Constance Eaden Berkeley
3 LS-2309 Ellsworth st Bkly 6032J
- Lim, Jessie Dinuba
1 LS-2700 Bancroft way
- Limbaugh, Helen Virginia Lodi
4 LS-2749 Dwight way Bkly 6444
- Limerick, Grace Catherine San Jose
*1 LS-2428 Grove st Bkly 5895
- Lincoln, Elton Page Berkeley
*4 Com-Hotel Whitecotton Bkly 7300
- Lincoln, Harry Abraham Calistoga
1 Agr-2410 Warring st Bkly 3666
- Lind, Lora Isabelle Mariposa
3 LS-2424 Virginia st Bkly 5249W
- Lindauer, Earl Sherman San Francisco
2 Agr-254 Twenty-second av, S F Pac 2726
- Lindbery, John Albert San Luis Obispo
1 Min-2605 Durant av Bkly 6981
- Lindblad, Hildui Evelyn Anaconda, Mont.
1 LS-2530 College av Bkly 7875J
- Lindblom, Brita Margaret Berkeley
1 LS-2608 Hillegass av Bkly 4989J
- Lindblom, Zeldia Ophelia San Jose
3 LS-1802 LeRoy av Bkly 8451
- Lindeberg, Niels David Calistoga
1 Com-2424 Virginia st Bkly 5249W
- Linderman, Marion Esther Alameda
*1 LS-2001 Alameda av, A Ala 932
- Linderman, Mabel Secrest Esparto
1 LS-1840 Berryman st Bkly 7999W
- Linderman, Martha Elizabeth Alameda
1 LS-2001 Alameda av, A Ala 932
- Lindgren, Charles Albert San Francisco
2 CE-2425 LeConte av Bkly 4384
- Lindley, Bayliss Bartlett Nevada City
1 LS PreM-848 Contra Costa av Bkly 6994
- Lindley, Paul A. Los Angeles
*1s Juris-2001 Allston way Bkly 6710
- Lindquist, Katherine Eleanore San Francisco
2 LS PreL-2642 Green st, S F Flmr 3794
- Lindquist, Randolph Emil Berkeley
1 Mec-1334 Curtis st
- *Lindsay, Allan Peter Milford
4 LS-2248 Telegraph av Bkly 9011
- Lindsay, Margaret Forbes Hollywood
*1 LS-2249 College av Bkly 7035J
- Lindsay, Rita Edna Tulare
1 LS-1815 Walnut st Bkly 8092W
- Lindsey, Avery Wanda Lindsay
4 LS-2276 Shattuck av Bkly 8300
- Lindsey, Claire Hilma Columbia
1 LS-2226 Chapel st Bkly 879
- Lindstrand, Uno Soledad
3 Agr-2419 Durant av Bkly 9149
- Linn, Albert Howard Watsonville
*4 LS PreM-2382 College av Bkly 1134
- Linney, Harold Edward Spokane, Wn.
1 Min-2609 LeConte av Bkly 8886W
- Linnoff, Angelina Eva Shanghai, China
3 LS PreM-1912 Milvia st
- Linthicum, Louise Wilson Portland, Ore.
(1) 3 LS-2714 Ridge rd Bkly 9093
- Lippincott, Joseph Reading Los Angeles
1 Mec-1815 Highland pl Bkly 1682
- Lischeske, Rennie William Algona, Iowa
*1 Mec-1151 Post st, S F Frkn 4705
- Lisher, George Louis Napa
4 LS-2500 College av Bkly 5942
- Listle, John Ingersoll Kalispell, Mont.
*1 Com-2315 Dwight way Bkly 4026

- Little, Emily Eliza Barstow
 1 LS-2542 Chilton way Bkly 7499J
 Little, Mildred Los Angeles
 4 LS-2324 Hilgard av Bkly 8161J
 Little, William Austin Oakland
 1 LS-415 Forty-ninth st, O Pied 8299W
 Liu, Ching Yee Kaifeng, China
 2 Chem-2600 Etna st Bkly 7593
 Liu, Sheng Teh Shanghai, China
 2 LS-2600 Etna st Bkly 7593
 Livingston, William Charles Fresno
 2(1) 3 Mec-2305 Bancroft way
 Livingston, Alfred, Jr. San Francisco
 (1) 2 Min-2335 Cedar st Bkly 2137W
 Livingston, Berenice Oxnard
 13 Agr-2710 Channing way Bkly 9520
 Livingston, Frank Greenfield
 1 Com-2227 Carlton st Bkly 5284W
 Livingston, Harvey Lawrence San Francisco
 1 LS-600 Steiner st, S F Park 8951
 Livingston, Margaret Bertha Milwaukee, Wis.
 1 LS-2542 Durant av Bkly 1864
 Livingston, Philip Greenfield
 3 Agr-University Farm, Davis
 Livingston, Robert Stanley Alameda
 2 Chem-872 Laurel st, A Ala 2051J
 Livingstone, Grace Lee San Francisco
 1s LS-205 Ninth av, S F Pac 6885
 Lizée, Lillian Theodora San Francisco
 1 LS PreL-2533 Channing way
 Bkly 6201J
 Lloyd, Harold Bell Los Angeles
 1 Min-2400 Haste st Bkly 4596
 Lloyd, Harry E. Oakland
 3 Min-2610 Durant av Bkly 7804
 Lo, Cheng Yau Haimen, China
 4 Mec-2206 Atherton st Bkly 4208J
 *Lobree, Alvin A. San Francisco
 4 LS and 1 Juris-950 Anza st, S F
 Pac 6900
 Locke, Allan Fitzgerald Mill Valley
 2 Com-2512 Benvenue av Bkly 8660
 Locke, James Eagle San Diego
 1s CE-2226 Haste st Bkly 4227W
 Locke, Stilwell Santa Cruz
 3 LS-1519 Oxford st
 Lockhart, Hugh Williamson Los Angeles
 (1) 3 LS-2647 Durant av Bkly 102
 Lockley, Lawrence C. Portland, Ore.
 (1) 4 LS-2518 Dana st Bkly 3174J
 Lockwood, Leon Davidson Rialto
 4 LS-2704 Derby st Bkly 9058J
 Loeber, Frances Maria Monterey
 4 LS-2519 Hillegass av Bkly 477
- Loeserman, Milton Meyer San Francisco
 1 Chem-3536 Twentieth st, S F
 Valen 3931
 Loewenthal, Gladys Berkeley
 1 LS-735 The Alameda Bkly 5272J
 Loewenthal, Natalie Los Angeles
 1 LS-2417 LeConte av Bkly 5650
 Loftis, Joe Bailey San Diego
 3 Com-2304 Telegraph av Bkly 3428
 Loftus, Margaret Jane San Francisco
 1s LS-1035 Geary st, S F Frkn 2680
 Logan, Leslye Oakland
 1 LS-228 Walsworth av, O Oakd 2313
 Logue, Marie Rosalie Santa Clara
 (1) 3 LS-2417 Bancroft way Bkly 1445
 Lohr, Emile Trimble Staunton, Va.
 1s LS-1130 Stanyan st, S F Mrkt 8940
 Lohse, Hans Berkeley
 (1) 2 Chem-744 Pomona st
 Loken, Gilbert Oakland
 1 LS-838 Wawona st, O Lksd 3932
 Lokke, Carl Ludwig Seattle, Wn.
 2 LS-1536 Milvia st
 Lolmaugh, Kenneth Carl Riverside
 1 CE-2512 Cedar st Bkly 815
 London, Bess Piedmont
 1 LS-606 Scenic av, P Pied 633W
 London, Joan Piedmont
 3 LS-606 Scenic av, P Pied 633W
 Long, Carl Thompson Santa Monica
 4 Min-Hotel Whitecotton Bkly 7300
 Long, Chula Berkeley
 2 LS PreM-1632 Spruce st Bkly 570J
 Long, Clara El Paso, Texas
 3 LS-2511 Channing way Bkly 8121J
 Long, Dorothy Council Bluffs, Iowa
 1 LS-2428 Channing way Bkly 6408
 Long, Frances Minneapolis, Minn.
 2(1) 3s LS-2627 Hearst st
 Long, Ione Vernelle Santa Rosa
 3 LS-3045 Hillegass av Bkly 9112J
 Long, John J. Mobeetie, Texas
 1 LS-2431 Dana st
 Long, Mary Elizabeth Pacific Grove
 1 LS-1747 Walnut st Bkly 1009W
 Long, May Belle El Paso, Texas
 1 LS-2511 Channing way Bkly 3121J
 Long, Robert Boyd Los Angeles
 1 Mec-1730 La Loma av Bkly 8716
 Longwell, Randolph Eldridge Oakland
 3 Agr-101 Budd Hall, Campus Local 103
 Look, Hilmar Dalton Sacramento
 1s Min-Golden West Hotel, S F
 Loomis, Mary Bernice Arroyo Grande
 1 LS-2522 Dwight way Bkly 6646J

- Looz, George Carl Lovelock, Nev.
 1 Agr-2600 Bancroft way Bkly 1901
 Loose, Warren Dean Provo, Utah
 2 LS PreL-2625 Hearst av Bkly 9535
 Looser, Reinhard Victor Stockton
 1 LS PreM-1909 Francisco st Bkly 951J
 Lopez, Benjamin Aloysius Santa Barbara
 1 LS PreM-2600 Bancroft way
 Lopez, Estanislao Rivera Binnmaley, P. I.
 (1) 8 LS-2039 Shattuck av Bkly 4929
 Lo Prest, Antonino Berkeley
 8 CE-1727 Euclid av Bkly 987J
 Lord, Alice Mae Eureka
 2 LS-1647 Allston way Bkly 6983W
 Lord, Dorothy Cerita Berkeley
 1 Med-2803 Regent st Bkly 4132W
 Lord, Frank Lewis Rochester, N. Y.
 2 Com-782 Kingston av, O Pied 1257J
 Lord, Lurana Sherwin Berkeley
 1 LS-2803 Regent st Bkly 4132W
 Lord, Miriam R. Eureka
 4 LS-2214 Dana st Bkly 1160
 Lorentzen, Kathleen Gertrude Berkeley
 2 Com-1736 Oxford st Bkly 3556W
 Lorenz, Bernice Melba Lodi
 3 LS-2721 Channing way Bkly 808
 Lorenzen, Corinne Oakland
 1 LS-1911 Brush st, O
 Lorenzo, Leon Ferrer Berkeley
 8 LS-1822 University av Bkly 1283
 Loring, Charles Marshall Alameda
 2 CE-1308 Weber st, A Ala 2158W
 Lormer, Anita Evaline Pasadena
 4 LS-2643 Hillegass av Bkly 6337W
 Louttit, Tom Hunter Stockton
 8 LS and 1 Juris-2529 Hearst av Bkly 40
 Love, Clara Olive Portland, Ore.
 1 Com-2531 Channing way
 Love, Edythe Bernice Diablo
 1 LS-2139 Berkeley way Bkly 7048W
 Lovegrove, Charlotte Carson City, Nev.
 3 LS-2533 Durant av Bkly 685
 Lovegrove, Margery Eleanor San Francisco
 3 LS-2723 Durant av Bkly 9531
 Loveland, Crittenden Andrus Berkeley
 8 LS-1715 Bushnell pl Bkly 7241W
 Loveland, Lewis Forest Pomona
 (1) 4 LS-2248 Telegraph av Bkly 9011
 Lovell, Duke Allen San Diego
 4 LS PreA-2221 Union st Bkly 8247J
 Lovell, Howell Oakland
 1 LS PreL-12 Bonita av, P Pied 6091
 Lovering, Phillips Hawke St. Helena
 8 CE-2620 Regent st Bkly 8404J
 Lovering, Stella St. Helena
 1 LS-2620 Regent st Bkly 8404J
 Lovett, Hobart McKinley Oakland
 12 Min-1647 Fourth av, O Mer 2484
 Lovey, Marshall Lou Alameda
 1 LS PreL-1817 San Antonio av, A Ala 1841W
 Low, May Pearce Wayman Grass Valley
 1 LS-1808 Delaware st
 Lowe, Claire Woodland
 1 LS-2710 Channing way Bkly 9520
 Lowe, Edmund Hoesch Woodland
 2 LS-2522 Ridge rd Bkly 5950
 Lowe, K. Elmo Los Angeles
 1 LS-1715 LeRoy av Bkly 2351
 Lowe, Kenneth William Woodland
 1 Agr-2522 Ridge rd Bkly 5950
 Lowe, Sa Laine Berkeley
 3 LS-2118 Durant av
 Lowell, Esther Julia Hollywood
 2 LS-2401 Hilgard av
 Lowell, Margaret Alhambra
 (1) 2 LS-2725 Channing way Bkly 7950
 Lowry, Agnes Scobie Sacramento
 1 LS-2330 College av Bkly 1803
 Lowry, George Archer Los Angeles
 1 Mec-2429 1/2 Bowditch st
 Lowry, Georgia Felton Sacramento
 1 LS-2330 College av Bkly 1803
 Loyd, Harry Marion Gridley
 1 LS PreL-2618 Fulton st
 Lozier, Mervyn Harvey Berkeley
 3 LS and 1 Juris-2501 Ridge rd Bkly 8158W
 Lucas, Adriano Acadilla Iloilo Norte, P. I.
 1 LS-124 Turk st, S F Pspt 565
 Luce, Daisy May Willows
 2 Com-2624 Virginia st Bkly 3663
 Luce, Harry Allen Santa Rosa
 3 LS-2332 College av Bkly 1134
 Lucey, Alva Patricia Bakersfield
 1 LS-2508 Ridge rd Bkly 4499W
 Luck, Harold Reynier Dallas, Texas
 1 Agr-1459 Jones st, S F Pac 1409
 Luckinger, Ralph Louis El Cajon
 4 Agr-University Farm, Davis
 Ludeman, Marie Marggert Red Bluff
 12 LS-1908 Channing way
 Ludemann, Carl Horstmann San Francisco
 2 Chem-777 Seventeenth av, S F Pac 7941
 Ludewig, Meta Maria Richmond
 4 LS-2519 Ridge rd Bkly 7614
 Ludewig, Otto Fredrick Richmond
 1 Com-903 Barrett av, R R 14
 Ludwig, Jennie Redding
 2s LS and 2 Juris-2520 Durant av Bkly 1675
 Luff, Hale Harper Berkeley
 4 Com-2607 Hearst av Bkly 5913
 Luff, Herman Walter San Francisco
 2 CE-298 Richland av, S F Valen 1396

- Luis, Rose E. San Francisco
2 LS PreA-811 Sixtieth st, O Pied 7118W
- Lukes, Wanda Berkeley
2 LS-2724 Stuart st Bkly 2319J
- Lukon, James William Rockford, Ill.
1 Agr-2530 Chilton way Bkly 4203
- Lum, Paul Albert Alameda
2 LS-2610 Durant av Bkly 7804
- Lund, Grace Elizabeth Stockton
21 LS-2328 Webster st Bkly 512
- Lund, Helen Thelma Oroville
8 LS-2721 Channing way Bkly 808
- Lundahl, Victorine Elizabeth San Francisco
1 LS-936 Noe st, S F Valen 5122
- Lundberg, Della Maybel Oakland
1 LS-2827 Linden st, O Oakd 7565
- Lundborg, William Clift Oakland
2 Com-2200 Piedmont av Bkly 6601
- Lundegaard, Ellert Emanuel Oakland
23 LS PreM-2831 Webster st, O Lksd 1847
- Lundgreen, Roselle M. Willows
8 LS-2632 Durant av Bkly 5134W
- Lundstrom, Fredrik Armand San Francisco
1 LS-2601 Durant av Bkly 23
- Lundy, Olive Louise Berkeley
(1) 2 LS-1304 Milvia st Bkly 1184J
- Lundy, Victor Redford San Diego
(1) 3 LS-2416 Allaton way
- Lunn, Otto Ritzau Copenhagen, Denmark
2(1) 3 CE-2509 Pacific av, S F Flmr 4561
- Lunn, Vogg Ritzau Copenhagen, Denmark
21 LS-2509 Pacific av, S F Flmr 4561
- Lupher, James Morgan Long Beach
2(1) 3 Com-2625 Hearst av Bkly 9535
- Lupton, George William, Jr. San Francisco
2 LS PreL-2717 Hearst av Bkly 5770
- Lutz, Eulila Elinor Oakland
2 LS-184 Santa Rosa av, O Pied 5719J
- Lux, Eleanor Marie Berkeley
2 LS PreM-1940 Haste st Bkly 253
- Lykins, Lee Talbot San Diego
1 Com-2634 Bancroft way Bkly 1276
- Lym, Wah Fook San Francisco
1 Mec-1235 Minnesota st, S F China 656
- Lyman, Margaret Greengo Berkeley
8 LS-1121 Glen av Bkly 8560
- Lyman, Marion Meredith Oakland
2 LS-2723 Durant av Bkly 9531
- Lynch, Juliet Munsell San Francisco
2 LS-325 Locust st, S F West 3227
- Lynch, Leo Gray San Ramon
1 Agr-2803 Parker st Bkly 8878W
- Lynch, Sarah Mary Boise, Idaho
(1) 3 LS-2307 Hearst av
- Lynn, Howard Michael Antioch
21 LS-2113 1/2 Delaware st
- Lynn, Ragle William Woodlake
1 Agr-3912 Telegraph av, O Pied 2367W
- Lynoff, Lydia Eda Shanghai, China
1 LS-1912 Milvia st
- Lyons, Arthur Denton San Francisco
2(1) 2 Mec-1640 Euclid av
- Lyons, John Davis Pasadena
(1) 3 Agr-2240 Telegraph av Bkly 1249
- Lyons, Lucile Kittredge Oakland
4 LS-771 Lakeshore av, O Oakd 1732
- Lyons, Ruth Hollis Berkeley
4 LS-1558 LeRoy av Bkly 4178W
- Lyons, Eleanor Santa Barbara
1 LS-2305 Bancroft way Bkly 7641
- Lyons, John Jacob Lodi
1 LS-2432 Ellsworth st Bkly 6708W
- Lyons, Thelma Marshfield, Ore.
21 LS PreA-2640 Dwight way Bkly 750J
- Lyons, Will Goldfield, Nev.
4 Mec-2425 LeConte av Bkly 4334
- Maas, Victor Emil San Francisco
2 Com-174 Jersey st, S F Man 5398
- Mabrey, Harold Monroe Oakland
21 LS-2101 Telegraph av, O Lksd 1700
- McAdams, Clarence Arthur San Francisco
23 Chem-2647 Dwight way
- McAfee, Lapeale Ray Berkeley
4 LS and 1 Juris-2782 Hillegass av Bkly 741
- McAfee, Wallace Taylor Berkeley
8 LS-2732 Hillegass av Bkly 741
- McAllister, Benjamin Oakland
2 LS-2617 Durant av Bkly 822
- McAllister, Breck Parkman San Mateo
1 LS PreL-2522 Ridge rd Bkly 5950
- McAllister, Chester Blume Richmond
4 Mec-765 Eighth st, R
- McAllister, Eleanor Agnes Sonora
2 LS-2538 Channing way Bkly 5972
- McAllister, Elliott, Jr. San Mateo
4 LS-2522 Ridge rd Bkly 5950
- McAlpine, Averill George Berkeley
4 Com-2316 Bowditch st Bkly 1416
- McAndrew, Joseph Blaine Berkeley
1s LS-2240 Telegraph av Bkly 1249
- McAvoy, Joseph Ernest Pittsburg
1 LS-16 Prospect av, S F Valen 6069
- McBride, Clarence Ross Vacaville
4 Agr-2617 Durant av Bkly 822
- McBride, Joseph Auguste San Francisco
3 Com-2273 Filbert st, S F West 8524
- McBride, Mary Katherine San Francisco
2 LS-2273 Filbert st, S F West 8524
- McBride, Strand Owensmouth
21 Mec-1419 Walnut st
- McCabe, Minora Ellis Berkeley
8 LS-1401 Arch st Bkly 2233
- McCaffrey, Nora Moss Berkeley
21 LS-2525A Virginia st Bkly 7470J

- McCahill, Percy Reedley
1 Agr-2547 Channing way Bkly 6438
- McCain, Harriette Lompoc
1 (1) 2 LS PreM-2421 Virginia st Bkly 1171J
- McCain, Louise Lompoc
(1) 2 LS PreM-2421 Virginia st Bkly 1171J
- McCan, Cecil Barbara San Francisco
1 LS-474 Frederick st, S F Park 3274
- McCann, Francis Underwood Mexico City, Mex.
3 Mec-2419 Durant av Bkly 9149
- McCann, Grace Louise St. Helena
1 LS-2318 Pacific av, A
- McCarthy, John Edward San Francisco
3 LS PreL-1726 Euclid av Bkly 6706
- McCarthy, Lillian S. Los Angeles
1s LS-2014½ Rose st
- McCarty, Bernard Yale Hood River, Ore.
1 Com-2214 Union st
- McCarty, John Raymond Stockton
1 Agr-2625 Hearst av Bkly 9535
- McCarty, Ray Bardwell Riverside
3 LS PreM-2627 Ridge rd Bkly 2541
- McCarry, Cleo Chauncy El Centro
1 Agr-2404 Bancroft way Bkly 6428
- McCauley, Regina Marie Vallejo
(1) 3 LS-2334 Bowditch st Bkly 1358W
- McCauley, Marie Cecil Los Angeles
12 LS-2401 LeConte av Bkly 1856J
- McClaren, Francis Edgar San Francisco
14 LS-2501 Ridge rd Bkly 1335
- MacClatchie, Eva Howard Hollywood
4 LS-2333 Channing way Bkly 8231W
- McCleery, Fern Elizabeth Los Angeles
4 LS-2624 Virginia st Bkly 3663
- McClellan, Claiborne Dewey Los Angeles
1 CE-2001 Allston way Bkly 6710
- McClelland, Bernard Garrett Susanville
2 Agr-2628 Durant av Bkly 4772
- McClelland, Wilson Melville San Francisco
1 Mec-536 Judah st, S F Snt 907
- McClintic, Stanley Charles Grafton
3 LS PreL-2803A Telegraph av
- McClintock, Clarence Martin Santa Ana
1 LS-Oxford apts Bkly 2957J
- McClish, Helen Dulcie Healdsburg
(1) 2 LS-2525 Virginia st Bkly 5658
- McClork, Harry Garrard Angels Camp
3 LS-2401 Durant av Bkly 6504
- McClure, Donald Oakland
12 Com-1948 Sixth av, O Mer 3539
- McClure, Kathryn Los Angeles
3 LS-1547 Euclid av Bkly 6681
- McClymont, James Robert M. Piedmont
1 LS-209 Pacific av, P Pied 6598
- McCollom, Norma Harold San Jose
8 Agr-University Farm, Davis
- McCone, Alicia Josephine Los Angeles
3 LS-2627 Hearst av Bkly 4009
- McCone, James Francis San Francisco
2 Mec-1726 Euclid av Bkly 6706
- McCone, John Alex Berkeley
2 Mec-1727 Euclid av Bkly 6706
- McCone, Margaret Josephine Berkeley
12 LS-2627 Hearst av Bkly 4009
- McConnell, Frances Hazel Los Angeles
1 LS-2624 Virginia st Bkly 8663
- McConnell, Mary Caroline Berkeley
1 LS-2610 Hillegas av Bkly 5439J
- McConnell, Phillip Cecil Riceville, Iowa
2 (1) 3 Min-2609 LeConte av Bkly 8836W
- McConnell, Sara Mignon Los Angeles
1 LS-Fifteenth and Jefferson sts, O Lkad 2960
- McConnell, Vincent Dye Los Angeles
4 LS-1640 Euclid av Bkly 7057
- McCord, Besse Clara Santa Ana
3 LS-2400 Bancroft way Bkly 6488J
- McCord, Donald Lyman Berkeley
2 Chem-2217 Vine st Bkly 2005J
- McCord, Maurice William Hayward
3 Agr-University Farm, Davis
- McCord, Nina Selma
12 LS-2400 Bancroft way Bkly 6488J
- McCormick, Aileen M. San Francisco
1 LS-242 Lee av, S F
- McCoy, Paul Johnston San Leandro
3 LS-2522 Ridge rd Bkly 5950
- McCoy, Richard Holley Berkeley
1s Mec-2124 Ward at Bkly 6643W
- McCrea, Fred Leland Hemet
1 LS-2614 Dwight way Bkly 5988
- McCrea, Lois Whipple Hollywood
13 LS-2723 Durant av Bkly 9531
- McCreary, Helen Jane Berkeley
3 LS-2318 Durant av Bkly 1966
- McCreary, Marion Ruey Berkeley
3 LS-2318 Durant av Bkly 1966
- McCreery, Hugh Charles Nevada City
1 CE-6617 Telegraph av, O Pied 1737
- McCreery, James Lindsay Carson City, Nev.
1 LS PreA-1535 Euclid av Bkly 4554
- McCreery, Margaret McClain Santa Barbara
13 LS-2533 Durant av
- McCulley, Mary Jane Flora Vista, N. M.
(1) 3 LS-18 Hillside court Bkly 7437

- McCulloch, Ernest Carr Alpaugh
2 Agr-1908 Grove st Bkly 1358
- McCulloch, Robert Esterby Alameda
2 Chem-820 Pacific av, A Ala 1058J
- McCullough, David Sandidge Berkeley
1 LS PreL-2021 Francisco st
- McCullough, Dorothy Elinor San Francisco
3 LS PreL-2214 Dana st Bkly 1160
- McCullough, Irene Doris Sacramento
4 LS-2221 Ward st
- McCully, Jesselyn Maud Bakersfield
1 LS-2508 Ridge rd Bkly 4499W
- McCutchan, Albert Clinton Long Beach
8 Com-2625 Hearst av Bkly 9535
- McCutehen, Ethel Claire Bakersfield
1 LS-2636 Channing way
- McDermed, Sarah Elizabeth Oakland
1 LS-2930 East Fifteenth st, O Frvl 2011
San Diego
- McDermott, Lucy M.
3 LS-1498 Euclid av
- McDevitt, Grace Catherine San Francisco
4 LS-1700 Euclid av Bkly 6789
- McDonald, Alice Wilmina Los Angeles
2 LS-2634 Ellsworth st Bkly 5297J
- MacDonald, Ambrose Percival Oakland
2 Com-2529 Hearst av
- McDonald, Arthur Harold Drumheller, Canada
*1 Min-2400 Dwight way
- McDonald, Charles E. Alameda
*1 LS-1442 Morton st, A Ala 4155J
- McDonald, Charles Slader Portland, Ore.
3 Chem-2336 College av Bkly 2431
- MacDonald, Ernest Mansen Berkeley
4 LS-2912 Deakin st Bkly 4678
- McDonald, Harry Miles San Bernardino
2 LS-2520 Durant av Bkly 3378
- McDonald, Helen Faye Van Nuys
(1) 3 LS-2630 College av Bkly 7059J
- McDonald, Hugh Angus Phillipsburg, Mont.
8 LS PreL-2214 Union st Bkly 2483
- MacDonald, Jack Eugene Santa Cruz
1 LS PreM-1749 Grove st
- McDonald, Lester Cross Oakland
2 Com-921 Adeline st, O Oakd 8188
- Macdonald, Marie E. Piedmont
*1 LS-152 Nora dr, P Pied 4192J
- McDonald, Mary Catherine Los Angeles
3 LS-2634 Ellsworth st Bkly 5297J
- McDonald, Teresa Eleanor Phillipsburg, Mont.
*1 LS-2542 Durant av Bkly 1364
- Macdonald, Victor New York, N. Y.
*1 LS-2600 Durant av Bkly 1731W
- McDonough, Vida Kelso, Wn.
1 Com-2522 Dwight way Bkly 6646J
- McDougall, Helen Berkeley
2 LS PreM-931 Mendocino rd Bkly 5801
- McDougall, Jean Sacramento
1 LS-2334 Bowditch st Bkly 1358
- McElroy, Joseph Harold San Jose
1 LS PreM-2001 Allston way Bkly 6710
- McElwain, Paul Victor Pasadena
*1 Oom-Hotel Whitecotton Bkly 7300
- McEneaney, Catherine E. Berkeley
1 LS-2621 Regent st Bkly 3755W
- McEneaney, Marion Dunlea Berkeley
3 LS-2621 Regent st Bkly 3755W
- McFadden, Thaddeus Wallace Sacramento
4 LS-2409 Webster st, S F
- McFadyen, Marie Prudence Long Beach
3 LS-2502 Bancroft way Bkly 1848
- McFaul, Irene Margaret Fresno
3 LS PreA-2512 Benvenue av Bkly 8660
- McFeely, Susan Mary Oakland
*1 LS-2915 Market st, O Oakd 2234
- Macfie, John Graham Alhambra
1 Agr-1730 La Loma av Bkly 8716
- McGaw, Baldwin San Francisco
1 LS-2725 Haste st Bkly 5453
- McGaw, Evelyn Victoria Berkeley
1 LS-2725 Haste st Bkly 5453
- McGee, Genevieve Oroville
*4 LS-1624 Scenic av Bkly 4217
- McGee, Grace Oroville
4 LS-2703 Forest av Bkly 3700
- McGibben, Samuel Joseph, Jr. Oakland
1 CE-875 Fifty-sixth st, O Pied 8985W
- McGill, Margery Elizabeth La Mirada
4 LS-2421 LeConte av Bkly 8063
- McGill, Marion Anna Vallejo
1 Com-2334 Bowditch st Bkly 1358W
- McGill, Reginald Berkeley
3 Mec-2500 Durant av Bkly 9141W
- McGill, Robert Robson La Mirada
(1) 2 CE-1540 Spruce st Bkly 921W
- McGill, Wayne Jefferson Orange
1 LS PreM-2137 Berkeley way Bkly 1112W
- McGinn, Eva B. Berkeley
*1 LS-2520 Ridge rd Bkly 5845W
- McGinn, Harriet Woodside Stockton
*1 LS-Treehaven apts Bkly 8841J
- McGinn, John Thomas San Francisco
*1 (1) 2 Agr-2411 Durant av Bkly 3071
- McGinness, Verner Moore Berkeley
2 LS-2508 Haste st Bkly 767
- McGinnis, Dorr Berkeley
1 LS-2556 Haste st Bkly 1645J
- McGinty, Ruth Mary Berkeley
4 LS-2516 Hilgard av Bkly 8688W
- McGinty, Walter Francis Oakland
1 Mec-16 Glenn av, O
- McGovern, Elsie Theodora San Francisco
3 Com-2520 Virginia st Bkly 7247
- McGovern, Vincent James San Francisco
8 LS and 1 Juris-1596 Union st, S F Frkn 2827

- McGowan, Adelheid Henrietta San Francisco
8 LS-2606 Diamond st, S F Men 1343
- McGowan, Rob Cleveland San Francisco
1 LS PreM-719 Ninth av, S F Pac 5062
- McGrane, Eugene Louis Vallejo
3 Min-2131 Center st
- McGrath, Merle Helen Berkeley
8 LS-1613 Grove st Bkly 6329J
- McGregor, Donald Richmond
8 LS PreL-201 Cottage av, R R 1492
- McGregor, Florence H. Piedmont
2 LS-622 Highland av, P Pied 2691
- McGregor, Helen Roberta Oakland
4 LS and 1 Juris-731 Sixtieth st, O Pied 658
- McGregor, John Ryle Oakland
1 Mec-731 Sixtieth st, O Pied 658
- McGregor, Leighton Douglas Piedmont
11s LS-622 Highland av Pied 2691
- McGuire, Ignatius Berkeley
8 LS-1538 Hawthorne ter
- McGuire, John Joseph San Francisco
11s LS PreM-708 Ashbury st, S F Park 6761
- McGurren, Winifred Jenkins San Francisco
1 Com-2929 Pierce st, S F Flmr 731
- McGurrin, Frank Buckley Oakland
4 LS-2412 Piedmont av Bkly 5098
- McGurrin, Frank Howard Oakland
2 LS-2717 Hearst av Bkly 5770
- McHale, Clara May Berkeley
11 LS-1810 Parker st Bkly 8866J
- McHale, Roy Marston Berkeley
12 Chem-1810 Parker st Bkly 8866J
- McHenry, Francis Berkeley
2 LS-2210 Ellsworth st Bkly 2320W
- McHenry, Lorenzo Alva Pasadena
2 LS-2614 Dwight way Bkly 5988
- McHenry, Robert Berkeley
2 CE-2210 Ellsworth st Bkly 2320W
- McHoul, Lillian Enyde Berkeley
1 LS-2542 Dana st Bkly 8982W
- McHugh, Dorothy San Francisco
2 LS PreA-2731 Regent st Bkly 2075
- McIntire, Manning Mayfield Lakeport
4 Mec-1251 Third av, O Mer 3181
- McIntosh, Katherine Ann Spokane, Wn.
(1) 4 LS-2307 Hearst av
- McIntosh, Nellie Frances Denver, Colo.
1 LS-2714 Prince st Bkly 2608W
- McIntosh, Phyllis Merrill Berkeley
11 LS-2915 Pine av Bkly 2746
- McIntosh, Ruth La Vinnie Los Angeles
(1) 2 LS-2523 Virginia st
- McIntyre, Earl Eugene San Luis Obispo
1 Com-2421 Durant av Bkly 1503W
- McIntyre, Etta Louise Los Angeles
(1) 4 LS-1700 Euclid av Bkly 6789
- McIntyre, George Leroy Berkeley
1 Min-2829 Benvenue av Bkly 7895J
- McIntyre, Helen Maude Piedmont
21 LS-10 Mesa av, P Pied 8377W
- McIntyre, Margaret Mary Oakland
21 LS-335 Thirty-fourth st, O Oakd 5793
- McIntyre, Ray Wilson San Luis Obispo
3 Agr-2421 Durant av Bkly 1503W
- McIver, Robert James Truckee
1 Mec-2318 Telegraph av Bkly 5964
- Mack, George E. San Francisco
2 LS-629 Vermont st, S F Valen 2425
- Mack, Silas Franklin Pacific Grove
1 LS PreL-2508 Haste st Bkly 767
- McKain, Gertrude Marion Berkeley
2 LS-2821 Hilllegass av Bkly 8840J
- McKay, Dorothy Jessie Wheatland, Wyo.
2 LS PreM-3883 Capp st, O
- McKay, Eaton MacLeod Suisun
4 LS PreM-2329 College av Bkly 6134W
- McKay, Helen Edith San Francisco
12 LS-166 Saturn st, S F Mrkt 3677
- McKay, Hester Katherine Calgary, Alberta, Canada
21s LS-2147 Blake st Bkly 1809W
- McKay, Shirlaw Wood Oakland
3 LS-1939 Harrison st, O Oakd 2424
- McKechnie, Eberts Mills Vancouver, B. C.
3 LS-2606 Bancroft way
- McKee, Elizabeth Henrietta San Diego
1 LS-2515 LeConte av
- McKee, Eltha Marshall Mechanicsburg, Ohio
11 LS-2016 Berkeley way
- McKee, John Albert Redwood City
3 Agr-University Farm, Davis
- McKee, Paul Lamar Los Angeles
1 Agr-2016 Berkeley way
- McKeever, James Joseph Oakland
1 LS-St. Mary's College, O Lksd 204
- McKellips, Grace Mabel San Jose
1 Med-2318 Bancroft way
- McKellips, Robert Charles San Jose
2 LS PreL-2318 Bancroft way
- Macken, Lawrence Raymond Ferndale
2 Agr-2416 Durant av
- McKenna, Arthur Francis San Francisco
21s LS-119 Fourteenth av, S F Mrkt 8268
- McKenna, Gerald Frederick San Francisco
1 LS-2601 Durant av Bkly 23
- McKenney, John Milton Oakland
11s Com-584 Seventeenth st, O
- McKenzie, Almeda Hollywood
2 LS-1715 LeRoy av Bkly 2351
- McKenzie, Clarence Sherwin San Francisco
2 Agr-2332 College av Bkly 1134
- McKenzie, Gordon Santa Maria
1 LS PreL-2248 Telegraph av Bkly 9011

Mackenzie, Kenneth	Portland, Ore.	McLaughlin, Margaret	La Jolla
1 LS-2426 Virginia st	Bkly 564	4 LS-2714 Ridge rd	Bkly 9093
McKenzie, Malcolm Durham	Martinez	McLaughlin, Rose May	Modesto
3 LS PreM-2634 Bancroft way	Bkly 1276	2 LS-2511 Dwight way	Bkly 7079W
Mackey, James Ernest	Imperial	McLaughlin, William Hughes	Oakland
2 Com-1791 Hopkins st	Bkly 4564J	12 Mec-180 Mountain av, P	Pied 2115J
MacKillop, Gladys Isabel	Santa Barbara	Maclay, Robert Dorsey	Berkeley
8 LS-2328 Bowditch st	Bkly 2152W	21 Agr-2509 Cedar st	Bkly 6116W
McKimmins, Mark	Alameda	McLean, Alexander Donald	Berkeley
2 LS-2610 Durant av	Bkly 7804	2 Com-395 Seventeenth av, S F	Pac 3193
Mackinlay, Agnes Bradburne	Santa Barbara	McLean, Arthur Lawrence	Berkeley
1 LS-2723 Durant av	Bkly 9531	28 LS-15 Canyon rd	Bkly 1060
Mackinlay, Anna Bradburne	Santa Barbara	McLean, Ezra Thomas	San Diego
4 LS-2723 Durant av	Bkly 9531	1 Chem-2785 Hillegass av	
*Mackinlay, John Bradburne	Santa Barbara	McLean, Lorna Jean	Los Angeles
4 LS-2607 Hearst av	Bkly 5918	3 LS-1510 Euclid av	Bkly 2698
McKinney, Vernon Thomas	Los Angeles	McLean, Lucile Rosanna	Exeter
11 LS-2247 Bancroft way		4 LS-395 Seventeenth av, S F	Pac 3193
MacKinnon, Hugh Sanborn	Berkeley	MacLeod, James Edison	Santa Rosa
2 LS PreL-2955 Magnolia st	Bkly 3798J	21 LS PreL-3059 Richmond av, O	Lkld 4107
MacKinnon, Robina Calder	Berkeley	McLeod, Kenneth, Jr.	San Jose
21 Agr-1049 Mariposa av	Bkly 4881W	21 Agr-2019 Bancroft way	Bkly 7537J
McKinnon, Wilfrid Charles	Arcata	McLure, Ruth E.	Oakland
1 LS PreM-2818 Telegraph av	Bkly 5964	21 LS-5907 Keith av, O	Pied 4400W
McKittrick, Donald Sterry	Oakland	McLymont, Aileen Murray	San Francisco
8 Chem-812 Thirty-fifth st, O	Pied 2029W	2 LS-2907 Jackson st, S F	West 5491
McKnew, Vera May	San Francisco	MacMahon, George Beaumont	San Francisco
1 LS-3718 Sixteenth st, S F	Park 4206	1 Com-2304 Telegraph av	Bkly 4328
MacKnight, Mildred Margaret	Berkeley	McMahon, James Henry	Lodi
4 LS-2609 LeConte av	Bkly 8836W	11 CE-2432 Ellsworth st	Bkly 6708W
McKnight, Shelley June	Salt Lake City, Utah	McMahon, Vesta Inez	Lodi
1 LS-2456 Derby st	Bkly 1570W	3 LS-2519 Hillegass av	Bkly 477
McKnight, William Baird	Los Angeles	McManigal, Robert Moore	San Francisco
(1) 3 LS PreM-2215 South Atherton st	Bkly 2744J	2 Chem-1432 Willard st, S F	Mrkt 2833
Mackson, Julius	San Francisco	McMaster, Leland Robert	Le Grand
2 LS PreL-3882 Sacramento st, S F		2 LS-1727 Sonoma av	Bkly 2066W
MacLachlan, Kenneth Allanton	Berkeley	McMeekin, Charles Laurence	Berkeley
3 Com-1934 Cedar st	Bkly 2360W	22 CE-497 Rich st, O	Pied 3029W
McLane, Loretta Agnes	Coalinga	McMeen, Melba M.	Berkeley
11 LS-2201 Ward st	Bkly 7075W	1 LS-2500 Durant av	Bkly 8464J
McLauchlin, Muriel Jean	Modesto	McMeen, Wanda M.	Berkeley
1 LS-1429 LeRoy av	Bkly 1024J	4 LS-2500 Durant av	Bkly 4070J
McLaughlin, Bernice	Weed	McMillan, Dan Alexander	Los Angeles
21 LS PreM-847 Fifty-sixth st, O	Pied 8306W	(1) 8 Min-1726 Euclid av	Bkly 6706
McLaughlin, Blanche Marie	Vallejo	McMillan, Daniel Henry	San Francisco
2 LS-2227 Carlton st		2 LS PreL-2832 College av	Bkly 1134
McLaughlin, Catherine	La Jolla	McMillan, Elizabeth	Samoa
(1) 2 LS-2714 Ridge rd	Bkly 9093	3 LS-2821 Bancroft way	Bkly 1765
McLaughlin, Edward Chester	Berkeley	McMillan, Irene	Boise, Idaho
3 Chem-2716 Grove st	Bkly 7242J	2 LS-2710 Channing way	Bkly 9520
		McMillan, James K.	San Luis Obispo
		1 CE-2231 Dana st	Bkly 1061W

- McMillan, Roxie Corder Boise, Idaho
 (1) 2 LS-2710 Channing way Bkly 9520
- McMillen, Erma Viola Bakersfield
 2 LS-2117 Durant av Bkly 7098J
- McMillin, Oscar James Berkeley
 8 LS-2620 Bancroft way Bkly 8870
- McMorry, Winifred San Francisco
 2 LS-219 Cole st, S F Pac 1975
- MacMullen, Gerald Fisher Coronado
 8 LS-2425 LeConte av Bkly 4384
- McMullin, Elisabeth Julia San Francisco
 4 LS-2217 Fulton st Bkly 8810
- McMurchie, Ethel Everett, Wn.
 4 LS-1480 Spruce st Bkly 5849
- McMurchie, Flora Prescott, Ariz
 1 LS-1430 Spruce st Bkly 5849
- McMurray, Margaret Berkeley
 2 LS-2327 LeConte av Bkly 8978
- McMurray, Theodore Hudson Manteca
 2 Mec-2125 Hearst Bkly 2125
- *MacNair, Hazel Farnsworth Redlands
 4 LS-2788 Regent st
- McNamara, Arthur A. Bakersfield
 4 LS PreM-2647 Durant av Bkly 102
- McNamara, John Joseph Crescent City
 1 Agr-2612 Haste st
- McNaughton, Edward Finley Tuolumne
 2 Mec-2001 Allston way Bkly 6710
- McNear, Lawrence Proctor San Rafael
 1 LS-2718 Haste st Bkly 78
- McNear, Lucretia San Rafael
 4 LS-2723 Durant av Bkly 9581
- McNeill, Alice Mildred Oakland
 2 LS-1424 Ninth av, O Mer 4569
- McNeill, Kenneth Fee Santa Monica
 8 Mec-2721 Hillegass av Bkly 1085
- McNutt, Marjorie Roberts Oakland
 8 LS-5237 Trask st, O Frvl 417W
- Macomber, Douglas Wetherill Denver, Colo.
 1 LS PreL-2486 Durant av
- Macomber, Henry Alden Oakland
 *1 LS-2423 E Twenty-second st, O Frvl 1225W
- Macon, Viola Madera
 3 LS-1632 Spruce st Bkly 570J
- McPhail, Graham Hardy San Rafael
 1 Com-2700 College av
- McPhee, Mary Everetta San Francisco
 1 LS-3324 Twenty-first st, S F Man 557
- McPhee, Victor Charles San Francisco
 8 LS PreM-3824 Twenty-first st, S F Man 557
- Macpherson, Helen Mae San Diego
 4 LS-2400 Piedmont av Bkly 5224
- MacPherson, James Kenneth San Francisco
 *1 Com-2001 Allston way Bkly 6710
- McPike, Hal Wilson Oakland
 *1 LS PreL-1640 Euclid av Bkly 7057
- McPike, Mary Hollywood
 3 LS-2417 LeConte av Bkly 6650
- MacQueen, Donald George Bishop
 *1 Mec-1725 Euclid av Bkly 4348
- McQuesten, Leavitt Mead Santa Cruz
 4 Agr-University Farm, Davis
- McRae, Archibald Chico
 3 LS-2646 Dwight way Bkly 4104
- McRay, Lela LaMiza Westport, Ore.
 *2s LS-2627 Hearst av Bkly 3229
- McReynolds, Homer H. Santa Rosa
 *1 Com-2421 Durant av Bkly 1803W
- MacRoe, Herbert Bennett Alameda
 *3 Com-2316 Bowditch st Bkly 1416
- McSharry, Edith Ellen Merced
 4 LS-Cor. Derby st and College av Bkly 4917W
- McSweeney, Theobald Charles El Monte
 *1 Agr-2605 Durant av
- MacTavish, George Oakland
 2 LS PreL-1126 Second av, O Mer 1809
- McVanner, Marie Angela San Francisco
 1 LS-4069 Twenty-sixth st, S F Man 6171
- MacVichie, Helen Cornelia Salt Lake City, Utah
 (1) 4 LS-2627 Hearst av Bkly 3229
- McWilliams, Ethyle Leone Los Angeles
 (1) 2 LS-1719 Euclid av Bkly 7844J
- McWilliams, Frances Mabel Oakland
 *1 LS-4794 Edgewood av, O Mer 2271
- Madden, Joseph Aloysius San Francisco
 *2 CE-1892 Ellis st, S F Flmr 611
- Madden, Josephine San Francisco
 *1 LS-1849 Oak st, S F
- Madden, Mabra Benjamin Yreka
 1 LS PreL-2128 Prince st
- Maddox, Philip Ford Sacramento
 3 Com-2330 Telegraph av Bkly 9227
- Maddox, Richard Stowe Sacramento
 2 Agr-2330 Telegraph av Bkly 9227
- Madison, Harold Gustave San Francisco
 1 LS-2610 Durant av Bkly 7804
- Madison, Lula Raphael Berkeley
 *1 LS-2621 Haste st Bkly 2044J
- Madsen, Carl Frederick San Rafael
 3 Mec-2418 Dana st Bkly 3814W
- Maeshner, Edward Antone Napa
 1 Mec-2248 Telegraph av Bkly 9011
- Maffy, Alfred Emil San Francisco
 3 Com-2600 Bancroft way Bkly 1901
- Mage, John Richardson Los Angeles
 3 LS-1726 Euclid av Bkly 6706
- Magee, Harry Hush Fruitvale
 3 LS-2607 Hearst av Bkly 5918
- Maggetti, Ubaldo Pasquale San Francisco
 3 LS-1821 Grant av, S F
- Magauci, Antonio Esmeraldo Philippine Islands
 1 LS PreM-Box 17
- Mah, Lawrence K. Berkeley
 3 Agr-University Farm, Davis

Mah, Margaret Katharine	Berkeley	Mandilla, Alexandra Michael	San Francisco
4 LS-3050 Hillegass av	Bkly 1677W	2 LS-948 Olney av, S F	
Mahan, Edna	Corcoran	Manetta, Laura Claire	Berkeley
2 LS-2542 Durant av	Bkly 1364	4 LS-1701 Allston way	Bkly 1462J
Mahan, Lucille	Oakland	Manetta, William Joseph	Fruitvale
13 LS-5383 Miles av, O	Pied 6406W	4 CE-1701 Allston way	Bkly 1462J
Maier, Helen Catherine	Berkeley	Manildi, Joseph Secondo	Santa Cruz
1 LS-3033 Wheeler st	Bkly 3256W	3 Mec-2500 College av	Bkly 5942
Maier, Waldo Bruegel	Watsonville	Manley, Ida Marcia	San Francisco
3 Chem-2528 Ridge rd	Bkly 3500	4 LS-191 Frederick st, S F	Park 2060
Mahl, Frederick Williams	Berkeley	Manning, Ethel Marie	Colorado Springs
1 LS PreL-Hotel Whitecotton	Bkly 7300	14 LS-2515 Ellsworth st	Bkly 9955
Mahoney, John Francis	Berkeley	Manning, Howell	Tucson, Ariz.
2 LS-2717 Hearst av	Bkly 5770	3 LS-2601 Durant av	Bkly 23
Mahoney, Theresa Marguerite	Hanford	Manning, Rozzie Estelle	Sacramento
1 LS-2430 Bancroft way	Bkly 4811	1s LS-114 Broderick st, S F	
Mahy, Eugene Francis	San Francisco	Mansfield, Elias Boudinot	Pasadena
1 Mec-2001 Allston way	Bkly 6710	(1) 2 Com-2335 Cedar st	
Mail, Helen Marion	San Francisco	Manzer, Sibyl Judith	Oakland
1 LS-553 Page st, S F	Park 2287	1 Com-5310 Boyd av, O	
Mains, Andrew John, Jr.	San Francisco	Marble, Elizabeth Hamilton	Santa Barbara
4 CE-50 Boyce st, S F	Pac 1709	(1) 2 Com-2821 Bancroft way	
Mains, Frances Virginia	Berkeley		Bkly 1765
4 LS-2417 LeConte av	Bkly 5650	Marbs, Hilda Marie	San Francisco
Maisner, Herman	Kalish, Poland	1(1) 2 LS-1048 Union st, S F	Pspt 4487
3 Chem-1932 Home st	Bkly 4795W	March, Harry John	Chico
Majors, Olin Cortis	San Diego	1 LS PreL-2628 Durant av	Bkly 4772
3 LS-2345 College av	Bkly 62	March, Oscar William	Chico
Makin, George	Dos Palos	2 LS PreL-2628 Durant av	Bkly 4772
1 LS-2500 College av	Bkly 5942	Marden, Jason Rice	San Francisco
Makin, Harold Adolph	Dos Palos	2 LS-1334 Eleventh av, S F	
2 Agr-2500 College av	Bkly 5942	*Marhenke, Paul	Pasadena
Malic, Elinor Eyre	Alameda	4 LS-Campus Cottage No. 5	Bkly 1762J
3 LS-2158 Clinton av, A	Ala 1547W	Maris, Mabel Victoria	Smith River
Mallard, Audria Lorraine	Sonora	3 Com-2632 Durant av	Bkly 5137W
1 LS-2228 Chapel st	Bkly 9078W	Mark, Stephen Gum	San Rafael
Mallinson, Annie Lynam	Oakland	4 LS-2504 Regent st	Bkly 3893J
4 LS-2417 LeConte av	Bkly 5650	Markley, Walter Charles	Fresno
Mallon, Mildred	Alameda	3 CE-2214 Dana st	Bkly 1160
4 LS and 1 Juris-2721 Haste st	Bkly 8800	Marks, Doris	Honolulu, T. H.
Malmsten, Ralph Arthur	Berkeley	2 LS-Cloyne Court	Bkly 4710
1 Agr-1315 Josephine st	Bkly 2133J	Marks, Louis D.	San Francisco
Maloney, Genevieve Eleanor	San Francisco	(1) 3 Com-1637A Washington st, S F	Grfld 75
1 LS-792 Elizabeth st, S F	Valen 5443	Marks, Marion Harris	Portland, Ore.
*Maltby, Katherine Dorenda	Concord	2 Mec-2218 Dana st	
4 LS-2739 Bancroft way		Marks, Maurice Benjamin	Oakland
Maltinesco, Henry Benedict	Los Angeles	1s Com-2713 Ellsworth st	Bkly 9592W
4s LS-1565 Octavia st, S F	Flmr 3148	Marks, Miriam Dina	Berkeley
Manahan, William Frank	Winters	4 LS-2741 Dwight way	Bkly 1281
1 Agr-2226 Durant av	Bkly 5691	Marks, Paul Lindsey	San Francisco
Manalo, Leon Marcario	San Francisco	4 LS-1601 Lake st, S F	
11 Min-1342 Green st, S F	Frkn 2125	Marlowe, Madeline Thomasina	Pasadena
Manchester, Dorothy Tolto	Berkeley	4 LS PreM-2417 LeConte av	Bkly 5650
2 LS PreL-55 Shasta rd	Bkly 338	Marovich, Anne Venice	Berkeley
Mand, Naomi Marie	Fresno	2 LS-2805 Regent st	Bkly 6551J
11 LS-2119 Addison st	Bkly 5112W	Marovich, Daniel Stephen	Berkeley
Mandal, Sant Ram	Oakland	1 LS-2805 Regent st	Bkly 6551J
3 Chem-2026 Center st	Bkly 2796	Marquardsen, Ernest Frederick	Behl, Idaho
		23 Com-2501 Ridge rd	Bkly 1385

- Marquess, Roy Stephen Rupert, Idaho
3 Agr—University Farm, Davis
- Marquis, Charles Edward Berkeley
3 LS PreM-2827 Russell st Bkly 6401J
- Marr, Orloff Claude, Jr. Berkeley
1 Mec-1603 Marin av Bkly 4581
- Marriott, Edwin Frank Alameda
1 LS-658 Sutter st, S F Papt 1743
- Marris, Beatrice Lillian Healdsburg
1 Com-2145A Russell st
- Marsan, Harold William Belvedere
1 Mec-2214 Union st Bkly 2488
- Marsh, Harry LeRoy San Bernardino
1 Com-2425 Hilgard av Bkly 522W
- Marsh, John Eckley Yreka
1 Chem-2620 Bancroft way Bkly 888
- Marsh, Lillian Virginia Long Beach
3 LS-1715 LeRoy av Bkly 2351
- Marsh, William Caswell Albany
2 Com-848 Main st, Albany Bkly 8609J
- Marshall, Beth Charlotte Fullerton
1 LS-1719 Euclid av Bkly 7844J
- Marshall, DeWitt Tallmage Modesto
1 Com-2330 Haste st
- Marshall, Jessie Morrison Berkeley
1 LS-2724 Channing way
- Marshall, Lloyd Tevis San Francisco
1 Mec-1906 Green st, S F West 3067
- Marshall, Marie Lucile Salem, Ore.
1 LS-2542 Durant av
- Marshall, Wilkinson Deloss San Jose
3 Mec-1906 Green st, S F West 3067
- Marston, Warren Galbreath San Francisco
1 LS PreM-89 Lobos st, S F
- Martin, Alice Claire Berkeley
1 LS-2509 Webster st Bkly 1757J
- Martin, Cecilia A. San Diego
1 LS-2417 LeConte av Bkly 5650
- Martin, Doan Crause Soldier, Idaho
1 CE-2600 Durant av
- Martin, Edna Rodden Oakland
1 LS-402 Grand av, O Lkxd 4751
- Martin, Esther Kirk Berkeley
3 LS-1438 Arch st Bkly 6163W
- Martin, Ethel Marian Porterville
1 LS-2226 Chapel st Bkly 879
- Martin, Frances Sidney Sacramento
3 LS-2418 College av Bkly 4440
- Martin, George Earl Oakland
3 Com-2607 Hearst av Bkly 5913
- Martin, Gertrude Ruth San Rafael
12 LS-2644 Etna st Bkly 5861J
- Martin, Harlan Getty Perris
1 Mec-2508 Dana st
- Martin, Isadora Lucille Los Angeles
14 LS-2201 Ellsworth st Bkly 6037W
- Martin, Joseph Polkinghorne Nevada City
(1) 3 Agr-2211 Ellsworth st Bkly 5496W
- Martin, Katherine Eleanor Watsonville
1 LS-2417 LeConte av Bkly 5650
- Martin, Leigh Emerson Berkeley
4 Com-2430 Channing way Bkly 8280J
- Martin, Lorraine Marie San Francisco
4 LS-203 Central av, S F Park 3599
- Martin, Lyman Foster San Francisco
2 LS PreM-2332 College av Bkly 1134
- Martin, Marie Theodora Pasadena
2 LS-2415 Haste st Bkly 244W
- Martin, Mary Aileen Berkeley
1 LS-2509 Webster st Bkly 1757J
- Martin, Mary Bates Oakland
3 LS-2725 Channing way Bkly 7950
- Martin, Merle Elizabeth Soldier, Idaho
1 LS-1621 Scenic av Bkly 5102
- Martin, Tevis Paul San Francisco
3 LS and 1 Juris-2647 Durant av Bkly 102
- Martin, Vibella Oakland
4 LS-678 Hillgirt Circle, O Mer 1820
- Martin, William Arthur San Francisco
14 LS PreM-2522 Ridge rd Bkly 5950
- Martinez, Fred Jose Santa Geda, El Salvador, C. A.
1 Mec-Bancroft apts Bkly 6759W
- Martini, Iride Ersilia San Francisco
2 LS-2509 College av Bkly 7344J
- Marvin, George Leggett Berkeley
11s Com-1928 Walnut st Bkly 6515W
- Marvin, George Work Santa Rosa
3 CE-2401 Dana st Bkly 6504
- Marvin, Irving Atkinson Oakland
12s Agr-271 Twenty-third st, O Oakd 1571
- Marx, Fitzgerald Francis Oakland
2 LS-468 Chetwood st, O Oakd 3770
- Marx, Gladys Louise San Francisco
1 LS-227 Steiner st, S F Mrkt 7608
- Maslin, Edith M. Berkeley
4 LS-2139B Berkeley way Bkly 112J
- Maslin, Helen Benteen Berkeley
1 LS PreM-2139B Berkeley way Bkly 112J
- *Mason, Aileen Patricia Berkeley
4 LS-2201 Ward st Bkly 7075W
- Mason, Albert Burton Exeter
(1) 4 LS PreL-2601 Channing way Bkly 5904
- Mason, Arthur Theodore Santa Monica
1 LS-2436 Durant av Bkly 6653J
- Mason, Frances Lilian Atlanta, Ga.
1 LS-2632 Channing way Bkly 5025J
- Mason, George Marshall Gilroy
12 Mec-2418 Dana st Bkly 3814W

- Mason, Grace Winifred Crows Landing
 *3 LS-2226 Chapel st Bkly 879
- Mason, Harold Gove Oakland
 8 Com-620 E. Twenty-second st, O Mer 2554
- Mason, Merritt Myers Bakersfield
 1 CE-1469 Harrison st, O Oakd 7416
- Masterson, Eleanor Belvedere
 8 LS-2709 Channing way Bkly 8528
- Masterson, Maude Belvedere
 1 LS-2709 Channing way Bkly 8528
- Mastoropulos, Stamatios San Francisco
 1a Mec-1241 Dolores st, S F Msn 4127
- Mata, Jose Agliberto San Francisco
 *1 Mec-300 Baker st, S F
- Mather, Carrie Morton Elizabeth, N. J.
 *1 8 LS-2511 Durant av Bkly 1762W
- Mathews Cecil Calvert Berkeley
 1 Agr-2410 College av Bkly 8656
- Mathews, Florence May San Francisco
 *1a LS-791 California st, S F
- *Mathews, Philip Strong Berkeley
 4 LS-2634 Bancroft way Bkly 1276
- Mathews, William Wadsworth Los Angeles
 4 LS-2228 Dana st Bkly 1058
- Mathewson, Carleton Fresno
 1 LS PreM-Sequoia apts Bkly 8847J
- Mathewson, Frank Fresno
 1 LS PreL-Sequoia apts Bkly 8847J
- Mathewson, Georgia Mary San Jose
 (1) 8 LS-2700 College av Bkly 1442J
- Mathis, Jacob Lenhardt San Francisco
 1 Mec-142 Saturn st, S F Mrkt 8355
- Matlock, Marcus Merle Santa Rosa
 2 LS-2610 Durant av Bkly 7804
- Matsen, Noma Vivian Oakland
 2 LS-737 Sixty-first st, O Pied 2140J
- Matsumura, Kiyoshi San Francisco
 2 LS PreM-1624 Post st, S F Flmr 1761
- *Matsushita, Shutaro Los Angeles
 4 LS-2240 San Pablo av, O
- Matthew, Gertrude Willard Santa Rosa
 1 LS-2200 Los Angeles av Bkly 2559W
- Matthew, John Britton Santa Rosa
 *3 LS-2701 Hearst av Bkly 2421
- Matthew, Theodore Santa Rosa
 2 LS PreM-2701 Hearst av Bkly 2421
- Matthews, Charles Ray San Jose
 (1) 4 Com-2200 Piedmont av Bkly 6601
- Matthews, Harold Macdonough Oakland
 *1 LS-4625 Park blvd, O Mer 718
- Matthews, Lucile Covina
 (1) 3 LS-2627 Hearst av Bkly 3229
- Mattoon, Stanley Fuller Los Angeles
 *1 Mec-1912 Haste at
- Mattox, William Forrest Long Beach
 (1) 3 Min-2345 College av
- Mattson, Raymond Bernard Bakersfield
 2 Com-2620 Bancroft way Bkly 8870
- Maul, Thomas Copeland, Idaho
 1a LS and 1 Juris-1590 Hayes st, S F
- Maupin, James Lawrence Fresno
 3 LS-2251 College av Bkly 9107
- Maurer, Lothar Charles Benicia
 2 LS PreA-2609 LeConte av Bkly 3836W
- Mausshardt, Milton Reid Berkeley
 *1 Mec-2857 Webster st Bkly 3798W
- Maxfield, William Maupin Oakland
 8 LS PreL-2521 Hearst av Bkly 708
- Maxwell, Allan Douglas Woodland
 1 LS-2701 Hearst av Bkly 2421
- Maxwell, Ethel Colton
 *1 LS-2119 Addison st Bkly 5128W
- Maxwell, Eva Banton Sacramento
 *3 LS-2218 Dana st Bkly 3267
- Maxwell, Katherine Oakland
 2 LS-285 Lee st, O Oakd 4857
- Maxwell, Margaret Cloyde Berkeley
 1 LS-15 Hillside Court Bkly 1982
- Maxwell, Victor Thomas San Francisco
 *2 LS-812 Oak st, S F Park 5711
- Maxwell, William Craig Piedmont
 *1 Agr-154 Ricardo av, P Pied 3892
- May, Irene Elizabeth Oakland
 1 LS-232 E. Sixteenth st, O Mer 5261
- Maybeck, Alvin Clifford Berkeley
 3 Agr-2414 Dwight way Bkly 8939W
- Maybeck, Wallen White Berkeley
 8 Mec-2601 Buena Vista av Bkly 4214W
- Mayer, Leona Minnie Berkeley
 1 Chem-1115 Oxford st Bkly 855J
- Mayfield, Charlotte May Suisun
 1 LS-2418 College av Bkly 4440
- Maynard, LaSalle Almeron Claremont
 (1) 8 LS PreL-2500 Durant av Bkly 8005J
- Maynes, Edna Frances Berkeley
 3 LS and 1 Juris-2433 Telegraph av
- Maynes, Walter William San Francisco
 3 LS and 1 Juris-2433 Telegraph av
- Mayo, Joseph Edgar Berkeley
 4 LS-2401 Durant av Bkly 6504
- Mays, George Ainsworth Portland, Ore.
 1 LS-2625 Haste at Bkly 6454
- *Maze, Merton Melville Modesto
 4 LS and 1 Juris-2610 Durant av Bkly 7804
- Meacham, Vernon Henry El Cerrito
 1 CE-420 Kearny st, El Cerrito
- Mead, Arthur Elwood Berkeley
 4 Agr-University Farm, Davis
- Mead, Marion Frances Sacramento
 2 LS-2627 Hearst av Bkly 3229
- Mead, Winfield Danforth San Francisco
 *1a Agr-2218 Dana st Bkly 3267
- Meadows, Rowland Earl Oakland
 2 Com-4473 East Fourteenth st, O Frl 470W

- Meagher, Anne Gertrude Oakland
 1 LS-1401 LeRoy av Bkly 72
- Meagher, Edmund Anthony Alpaugh
 2 LS-2419 Durant av Bkly 9149
- Meagher, Katherine Theresa Oakland
 1 LS-1523 Twenty-eighth av, O Frvl 2508W
- Meakin, Anna Minnie Berkeley
 1 LS-1628 Spruce st Bkly 4837W
- Meckfessel, Russell Gent Arbuckle
 3 Agr-University Farm, Davis
- Medina, Augusto Llamas Paranaque, Rizal, P. I.
 (1) 2 Agr-1822 University av Bkly 1288
- Medros, Grace Evelyn Hayward
 1 LS-2627 Hearst av Bkly 8229
- Meece, Maybelle Jean Berkeley
 2 LS-1232 Spruce st Bkly 3580J
- Meehan, Richard Paul Berkeley
 1 Com-1730 La Loma av Bkly 8716
- Meek, Carolyn Stevens Antioch
 3 Agr-2625 LeConte av Bkly 8626J
- Meek, Charles Elwood Berkeley
 8 Min-2339 Regal rd Bkly 788
- Mehan, Charles Thomas Alameda
 1 Com-1023 Walnut st, A Ala 2398J
- Mehan, Felix George Alameda
 3 Com-2316 Bowditch st Bkly 1416
- Meherin, Joseph Minton San Francisco
 2 Med-307 Scott st, S F Park 3572
- Mehesy, Brownie Rhea Salt Lake City, Utah
 1 (1) 2 LS-Plaza Hotel, S F
- Mehesy, Leah Marie San Francisco
 1 LS-2517 Regent st Bkly 5535W
- Meighen, Miles Patrick Porterville
 1 Com-2421 Virginia st Bkly 1171J
- Meighen, Ruth Storm Lake, Ia.
 1 LS-2421 Virginia st Bkly 8249
- Meilike, Louise Bertsch Madera
 3 LS-2749 Dwight way Bkly 6444
- Meiring, Stefanus Johannes Pearl Cape Province, South Africa
 1 LS Agr-2208 Atherton st
- Mejia, Arthur Ralph San Francisco
 1 LS-2425 LeConte av Bkly 4334
- Mejia, Edwin Joseph San Francisco
 8 Chem-2425 LeConte av Bkly 4334
- Melhus, Mabel Hollister
 (1) 3 LS-2309 1/2 Haste st Bkly 3398W
- Melkonian, Leon Fresno
 2 LS PreM-2546 Etna st Bkly 6281W
- Mellars, Marion Gertrude San Francisco
 1 LS-Harrison and Stannage sts Bkly 9899J
- Mellen, George Earle Corning
 2 LS-2419 Durant av Bkly 9149
- Mellin, Willard Colby Vallejo
 4 LS-2901 Channing way
- Mellon, Lorene Oakland
 4 LS-98 Friable st, O Lksd 3426
- Mellow, Benjamin Frank Chico
 (1) 8 Agr-2805 Bancroft way Bkly 7461
- Melton, Elsie Eva Stockton
 2 LS-1547 Euclid av Bkly 6681
- Meltzer, Grace Oakland
 2 LS-1090 Ardmore av, O Lksd 5162
- Melvin, Marjorie Oakland
 2 Agr-2519 Ridge rd Bkly 7614
- Memmler, Gertrude Alma Monrovia
 4 LS-42 Plaza dr Bkly 1168
- Mendel, Harry Los Angeles
 2 Com-2542 LeConte av Los Angeles
- Mendel, Mary Los Angeles
 1 LS-2542 Durant av Whittier
- Mendenhall, Lois Amelia Whittier
 (1) 2 Com-2627 Hearst av Bkly 4009
- Mendler, Bessie Angeles San Francisco
 8 LS-2416 College av Bkly 8476J
- Mendori, Ikuyo Oakland
 1 LS-6518 Wheeler st, O
- Menhennett, Ellsworth Reynolds Mesa, Ariz.
 1 Mec-Euclid apts Bkly 7521J
- Menhennett, Valerie Gladys Mesa, Ariz.
 1 LS-Euclid apts Bkly 7521J
- Menifee, Mabel Lois Fresno
 4 LS-2530 Ridge rd Bkly 7084
- Menifee, Norman Scott Fresno
 13 Juris-2382 College av Bkly 1134
- Menke, Edward Frank Los Angeles
 8 LS PreA-2601 Durant av Bkly 28
- Menning, Charlotte Edna Pasadena
 1 LS-2627 Hearst av Bkly 4009
- Mensor, Merrill Coleman San Francisco
 2 Med-306 Parnassus av, S F Park 8917
- Mentzer, Maybelle Violet Bakersfield
 (1) 3 LS-2521 Virginia st
- Mentzer, Stanley Herman San Francisco
 2 Med-2528 Ridge rd Bkly 3500
- Mercer, Arthur Henry San Francisco
 2 Med-4428 Twenty-third st, S F Snt 617
- Mercer, Harry Toner Long Beach
 4 LS-2415 Haste st Bkly 244W
- Mercer, Pauline Louise Oakland
 4 LS-670 Brockhurst st, O Pied 1010W
- Merchant, John William Berkeley
 3 Agr-University Farm, Davis
- Meredith, Donald Lewis Upland
 1 LS-2426 Virginia st Bkly 564
- Mereen, Doris Cates Berkeley
 1 LS-2959 Russell st Bkly 6131
- *Merenbach, Nathan San Francisco
 4 LS and 1 Juris-2106 Delaware st
- Mering, Constance Sacramento
 1 LS-2627 Hearst av Bkly 3229
- Mering, Sumner N. Sacramento
 4 LS and 1 Juris-2625 Hearst av Bkly 9535

Merkle, Henry Johann	San Francisco	Metzler, John Adam, Jr.	Santa Cruz
2 LS PreM-1508 Arch st		3 LS PreL-2601 Durant av	Bkly 23
Merriam, Katharine	Oakland	Metzler, Ruth Maxine	Los Gatos
1 LS-115 Kempton av, O	Oakd 9472	1 Com-2211 Atherton st	
Merriam, Lawrence Campbell	Berkeley	Metzner, Mildred	San Francisco
4 Agr-2401 Bowditch st	Bkly 1908	4 LS and 1 Med-2709 Channing way	Bkly 8528
Merrick, Mignon Beth	San Diego	Meyenberg, Werner David	San Jose
4 LS-2331 Dwight way	Bkly 5374J	3 LS PreM-2001 Allston way	Bkly 6710
Merrill, Grant	Redwood City	Meyer, Andrew Zobel	Los Angeles
2 Agr-1730 La Loma av	Bkly 8716	1 LS-2618 Durant av	
Merrill, John Althouse	Albany, Ore.	Meyer, Annette Jean	Antioch
4 LS and 1 Med-2122 Bancroft way		4 LS-1620 Arch st	Bkly 7580J
Merrill, Leah Margaret	Oakland	Meyer, Dorothy Anna	Lemoore
1 LS-1020 Adeline st, O	Lksd 2271	1 LS-2421 LeConte av	Bkly 3062
Merrill, Theodore Babson	Berkeley	Meyer, Elise	San Francisco
3 LS-2330 Telegraph av	Bkly 9227	²¹ 1 LS PreM-2228 Chapel st	
Merriman, Dwight Livingston	Corte Madera	Meyer, Elsie Ware	Kennecott, Alaska
2 LS-2627 Ridge rd	Bkly 2541	(1) 4 LS-Euclid apts	Bkly 2873W
Merriman, Marjorie Aurilla	Berkeley	Meyer, Gale Deringer	Sacramento
1 LS-2545 Milvia st	Bkly 5173J	²² 2 Com-2215 Fulton st	
Merriman, Sharon Chapman	Medford, Ore.	Meyer, George Harold	Alameda
1 LS PreL-646 Cole st, S F	Mrkt 1407	4 LS-1840 Green st, S F	West 5912
Merritt, Dorothy	Berkeley	Meyer, Harry Barthold	San Francisco
¹ (1) 2 LS-1837 Arch st	Bkly 3749	4 Mec-2407 Dwight way	Bkly 9025W
Merritt, Earl Jay	Tracy	Meyer, Herbert	Oakland
¹ 1 LS-1837 Arch st	Bkly 8749	1 Chem-626 Twelfth st, O	Oakd 2964
Merritt, Gladys	Woodland	Meyer, Irwin Oscar	San Francisco
¹² 2 LS-2710 Channing way	Bkly 9520	¹⁴ 4 Agr-226 Arguello blvd, S F	Pac 4279
Merritt, Gladys Thelma	Oakland	Meyer, Juanita Jeanette	Fullerton
1 LS-540 Thirty-fifth st, O	Pied 4638J	4 LS-2429 Channing way	Bkly 4648
Merritt, Ruby Bernice	Petaluma	Meyer, Louis, Jr.	Los Angeles
4 LS-2520 Virginia st	Bkly 7247	2 LS-2618 Durant av	Bkly 2765
Merry, Lula Pearl	Ceres	Meyer, Louise Igoe	Oakland
4 LS-1619 Spruce st	Bkly 2402W	1s LS PreM-1915 University av	Bkly 2670
Mersereau, Edith	Oakland	Meyer, Mercy Mildred	Petaluma
2 LS-285 Fairmont av, O	Oakd 7035	² (1) 2 LS PreL-2624 Virginia st	Bkly 3663
Merwin, Ogle Charles	Sacramento	Meyer, Theodore Robert	San Diego
²⁴ 4 Agr-University Farm, Davis		2 LS PreL-1742 Blake st	
Metcalf, Clark Hilton	Berkeley	Meyers, Claude David	Bay City, Mich.
1 Com-2141 Eunice st	Bkly 5748	1 LS-2639 Durant av	Bkly 4126W
Metcalf, Kenneth McCausland	Los Angeles	Meyers, Edith Mary	Alameda
4 LS PreM-2315 Hilgard av	Bkly 2157J	2 LS PreM-2021 Alameda av, A	Ala 1116
Metcalfe, George Brownlow	Kennett	Meyers, Gladys Louise	Oroville
¹⁴ 4 LS-2251 College av	Bkly 9107	3 LS-3925 West st, O	Pied 8277W
Metcalfe, Stephen Brownlow	Kennett	Meyers, Joseph Edward	San Francisco
3 LS-2251 College av	Bkly 9107	1 LS PreM-851 Hayes st, S F	Mrkt 3369
Methmann, Hugo Herman	Oakland	Meyers, Leslie Oscar	Oakland
2 Com-3900 Telegraph av, O	Pied 961	3 Mec-3814 West st, O	Pied 4585
Metsion, Wilfred Graham	San Francisco	Meyers, Marian Agnes	El Monte
4 LS-2125 LeConte av	Bkly 4334	1 LS-2526 Hilgard av	Bkly 1441
Mettier, Stacy Raymond	Pasadena		
1 LS PreM-2620 Bancroft way	Bkly 8870		
Metz, John	Los Angeles		
2 CE-2507 Channing way	Bkly 3359W		

Meyers, Mildred Sophie	Alameda	Miller, Beatrice	Adel, Ia.
4 LS PreA-2021 Alameda av, A	Ala 1116	(1) 3 LS-2502 Dana st	Bkly 423J
Meyersieck, Mary Catherine	Los Angeles	Miller, Benjamin	Ashland, Ore.
1 LS-1621 Scenic av	Bkly 5102	² 1 Mec-2162 Vine st	Bkly 4868
Meyersieck, Ray R.	Los Angeles	Miller, Edward Tracy	Porterville
¹² 2 Agr-2332 College av	Bkly 1134	4 Agr-2528 Ridge rd	Bkly 3500
Michael, Ella Arline	East Auburn	Miller, Eunice	San Diego
4 LS-2428 Channing way	Bkly 6408	(1) 3 LS-2627 Hearst av	Bkly 4009
Michaels, Mary Louise	Alameda	Miller, Florence Alberta	Ingomar
3 LS-2725 Channing way	Bkly 7950	4 Com-2327 Bancroft way	Bkly 1061W
Michel, Magdalena Edna	Bozeman, Mont.	Miller, Frances Marble	Oakland
1 LS-2627 Hearst av	Bkly 4009	2 LS-3737 Peralta av, O	Frvl 8081W
Michelbacher, Ida M.	Riverside	Miller, Fred	Wamego, Kansas
4 LS-1532 Josephine st	Bkly 7403J	² (1) 2 LS-2008 Shattuck av	Bkly 5135
Michels, Beulah Elizabeth	Pasadena	Miller, Harold Dewey	Elk Grove
² 1s LS-743 Polk st, S F	Frkn 4120	3 LS-1711 Euclid av	Bkly 3378
Mickel, Mary Eleanor	Madera	Miller, Harold Parsons	Willits
2 LS-1524 Scenic av	Bkly 9122J	2 Agr-2184 University av	Bkly 6052
Mickle, Ben Christie	Centerville	Miller, Henry Commercial	San Diego
3 LS-2200 Piedmont av	Bkly 6601	1 Mec-2717 Haste st	Bkly 586
Mickle, Mary Inez	Centerville	Miller, Hortense	San Francisco
2 LS-2721 Channing way	Bkly 808	1 LS-625 Masonic av, S F	Pac 7884
Middaugh, Virginia Colburn	Los Angeles	Miller, Howard Elmo	Placerville
(1) 3 LS-Faustina apts, O	Lkad 2472	4 LS-2438 Durant av	Bkly 8757W
Milbank, Morris	Los Angeles	Miller, Irma Madeline	Oakland
2 Com-2713 Haste st	Bkly 78	2 Agr-1425 Second av, O	
Milbourn, Robert Henry	Dos Palos	Miller, James Leland	Bishop
2 Agr-2411 Durant av		2 Com-2122 Hearst av	
Milburn, George James	Los Angeles	Miller, Madalyn	Berkeley
3 LS-2333 College av	Bkly 1722	4 LS-2416 Martinez av	Bkly 8255J
Milekovich, Nikola	Oakland	Miller, Marion	Oakland
¹² 2 LS-1932 West st, O	Oakd 5269	3 LS-2709 Channing way	Bkly 8528
Miles, Charles	Berkeley	Miller, Marjorie Metcalf	Oakland
4 LS-2500 Bancroft way	Bkly 1848	1 LS-738 E. Nineteenth st, O	Mer 4497
Miles, Will Lauris	Los Angeles	Miller, Marvin Roy	San Francisco
3 LS-Oxford apts	Bkly 9332W	¹ 1 Agr-1000 Paru st, A	Ala 402
Millisich, Chris Frank	Oakland	Miller, Mary	Monterey
3 Min-376 Nineteenth st, O		3 LS-1621 Hearst av	Bkly 2869W
Militar, Rosa	Manapla, P. I.	Miller, Mary Bernice	Santa Cruz
¹ 1s LS-1278 Fourth av, S F	Snat 716	1 LS-2627 Hearst av	Bkly 4009
Millar, Grace	Oakland	Miller, Mildred Reid	Oakland
4s LS-862 Fifty-fourth st, O		² 1 LS-5685 Oak Grove av, O	Pied 7590W
Millar, Richard William	Pied 2121J	Miller, Myrtle Edna	Richmond
(1) 3 LS-2625 Hearst av	Bkly 9535	2 LS-1614 Josephine st	Bkly 7471J
Millard, Mary Elizabeth	Vancouver, B. C.	Miller, Persis Francis	Stockton
4 LS-2527 Virginia st	Bkly 2080J	1 LS-2709 Channing way	Bkly 8528
Millard, Maude Lovell	San Francisco	Miller, Rexwell Delbert	Berkeley
4 LS PreL-2318 Telegraph av	Bkly 5964	3 Mec-2107 Hearst av	
Millare, Ulpiano Dagdag		Miller, Thelma Joan	Placerville
Kuyapo, Nueva Ecija, P. I.		¹ 1 LS-2403 Telegraph av	Bkly 1051
(1) 3s LS PreM-2223 Atherton st	Bkly 6680	Miller, Wallace Henry	Riverside
Millen, William Alexander	Stratford	2 Com-2701 Hearst av	Bkly 2421
¹ 1 Mec-1131 Shotwell st, S F		Milliken, Faith Farrington	Berkeley
Miller, Alice Katherine	Berkeley	2 LS-2217 Fulton st	Bkly 8810
¹ 1 LS-2429 Stuart st	Bkly 1219J	Milliken, Francis Clarissa	Oakland
		3 Com-3858 Howe st, O	Pied 4728
		Miller, Alice Cobb	Oakland
		3 LS-3858 Howe st, O	Pied 4728

- Millington, Dudley Hamet
 1 LS PreL-2614 Dwight way Bkly 5988
 Millia, Naomi Rhoe Berkeley
 1 LS-1619 Shattuck av
 Mills, Arthur Bocarde Mill Valley
 1 Com-2401 LeConte av Bkly 1856J
 Mills, Charles W. Riverside
 2 LS PreM-2627 Ridge rd Bkly 2541
 Mills, Jessie Louise Turlock
 1 LS-52 Shore View, Lincoln Manor.
 S F Bayview 209
 Mills, Marion Josephine Berkeley
 4 LS-2962 Russell at Bkly 4974
 Millspaugh, James Wallis Mexico
 2s Min-2383 Channing way Bkly 4367
 Milkner, Raymond J. Oakland
 2 LS PreM-3002 E. Seventeenth st, O
 Milne, Lloyd Donald Ukiah
 1 Mec-2276 Shattuck av Bkly 8300W
 Milovich, Solomon Philip
 Vladivostok, Russia
 (1) 2 Mec-2248 Telegraph av Bkly 9011
 Minaker, William Lain San Francisco
 1 CE-2547 Channing way Bkly 4638
 Miner, Florence F. Johore Bahru, Str. S.
 1 LS-2509 Hearst av Bkly 1151W
 Minger, Harold Ralph Los Angeles
 (1) 2 LS-1496 Euclid av Bkly 3090J
 Mini, Romeo Adolph Vallejo
 4 LS-2500 College av Bkly 5942
 Minutiello, Felix Anthony Sacramento
 1 Com-Channing apts Bkly 6276W
 Missner, Thelma Arleen Lincoln
 2 LS-2406 Bancroft way Bkly 6428
 Mitau, Martin Sachs San Francisco
 3 LS-Treehaven apts
 Mitchell, Alice Mae Berkeley
 2 LS-1716 Rose st Bkly 5939W
 Mitchell, Beth Fowler
 1 LS-2218 Dana st Bkly 3267
 Mitchell, Clarence Robert Berkeley
 1 LS-2215 Stuart st Bkly 2883W
 Mitchell, Dorothy Clyde Berkeley
 2 LS-2507 Channing way Bkly 3359W
 Mitchell, Florence Victoria Phoenix, Ariz.
 3 LS-2418 College av Bkly 4440
 Mitchell, George Eric Berkeley
 1 Mec-2253 Glen av Bkly 7488J
 Mitchell, George Russell Santa Barbara
 2 Com-2248 Telegraph av Bkly 9011
 Mitchell, Gerald Earle Pasadena
 1 Min-2507 Channing way Bkly 3859W
 Mitchell, Gordon Barnard Santa Barbara
 1 LS-2546 Etna st Bkly 6281W
 Mitchell, Helen Bernice Ogden, Utah
 3 LS-1716 Rose st Bkly 5989W
 Mitchell, Helen Margaret Phoenix, Ariz.
 4 LS-2418 College av Bkly 4440
 Mitchell, Joe Lee Porterville
 1 Com-2717 Hearst av Bkly 5770
 Mitchell, John Robert San Francisco
 8 Com-1610 Larkin st, S F
 Mitchell, Joseph Victor San Francisco
 1 Chem-627 Lyon st, S F Flmr 4216
 Mitchell, Lucile Fowler
 2 LS-2218 Dana st Bkly 3267
 Mitchell, Marion Otis Alameda
 4 LS-1081 San Antonio av, A Ala 152
 Mitchell, Myrtle Berkeley
 4 LS-2215 Stuart st Bkly 2883W
 Mitchell, Samuel Duffield Santa Barbara
 2 LS-2200 Piedmont av Bkly 6601
 Mitchell, Truman Henry Oakland
 1 LS PreM-727 Thirty-sixth st, O
 Pied 777
 Mix, Charles Alexander Everett, Wn.
 1 Chem-2435 Haste st Bkly 1980
 Mix, Margaret Kildare Elk Grove
 1 LS-1555 Marin av Bkly 2651W
 Mix, Virginia Elk Grove
 4 LS-2538 Durant av Bkly 665
 Mixter, Willard Herbert Exeter
 1 Mec-2405 Fulton st Bkly 8525W
 Miyata, Kenichi San Francisco
 3 Agr-1739 Euclid av Bkly 6441
 Mizuno, Junzo Los Angeles
 8 Chem-1739 Euclid av Bkly 6441
 Mobley, Rosamond Ruth Vallejo
 1 LS-2437 Hilgard av Bkly 3345W
 Modell, Mary New York, N. Y.
 1 LS-1421 Walnut st.
 Moen, Archie Howard San Diego
 2 LS PreL-2528 Ridge rd Bkly 3500
 Moffitt, James San Francisco
 3 LS-2607 Hearst av Bkly 5913
 Mogle, William Loring Los Angeles
 (1) 2 CE-2431 Dana st Bkly 547W
 Mohart, Courtenay Chatham Alledo, Tex.
 (1) 2 LS-2710 Haste st
 Mohn, Donovan Eustace Willits
 3 Com-2412 Piedmont av Bkly 5098
 Mohr, Everett Kingsley San Francisco
 2s Com-1526 Seventh av, S F Snt 739
 Mohr, Paul San Francisco
 4 LS-1449 Willard st, S F Mrkt 4351
 Moir, John Lawrence Macrae London, England
 1s Mec-2315 Dwight way Bkly 4026
 Moir, Vinrace Macrae London, England
 1s Mec-1735 Channing way Bkly 1483W
 Moldrup, Beatrice Louise Crescent City
 2 LS-2017 Lincoln st Bkly 4706J
 Molina, Ataulfo San Diego
 3 LS and 1 Juris-2211 Ellsworth st
 Bkly 5496W
 Moll, Martha Letitia Hollywood
 4 LS-2739 Bancroft way Bkly 204

- Moll, Ruth Eleanor Hollywood Bkly 204
 '2 LS-2739 Bancroft way
- Mollé, Myrtle San Francisco Bkly 5123J
 '4 LS-718 Arlington av
- Molony, Richard Egster Los Angeles
 4 LS PreM-2336 College av
- Monahan, Hugh Laird Livermore
 2 LS PreM-Faculty Club, Campus Bkly 2855
- Moncure, George Vowles Berkeley
 1 Agr-42 Tunnel rd Bkly 4531J
- Monfort, Marion Strawn Glendale
 '1(1) 2 LS-Syndicate bldg, O
- Monhoff, Fred Los Angeles
 '2 LS-1815 Highland pl Bkly 1682
- Monk, Walter Berkeley Bkly 2856
 4 LS-2307 Hearst av
- Monroe, Elizabeth Berkeley
 '1 LS-1060 Merced st
- Monroe, Fred Degen Emmett, Idaho Bkly 767
 1 LS-2508 Haste st
- Monroe, Horace Perry, Jr. Carliotta
 2 Agr-2248 Telegraph av Bkly 9011
- Monroe, Margaret San Francisco
 4 LS PreA-2725 Channing way Bkly 7950
- Monser, Dorothy Los Angeles Bkly 4440
 1 LS-2418 College av
- Montagne, Astra L Oakland
 '2 LS-Broadway ter and Cross Roads, O Pied 3478W
- Montagne, Myrtle Elizabeth Covelo
 '1 Com-25 Shasta st
- Montalvan, Julio Leon, Nicaragua
 1 LS PreM-2918 E. Twenty-second st, O Frvl 877W
- Montell, Douglas G. Santa Cruz Bkly 6107
 4 LS-2527 Ridge rd
- Montgomery, Albert Irving Santa Monica Bkly 102
 1 Agr-2647 Durant av
- Montgomery, Curtis Hall Oakland
 4 Min-2231 Twenty-third av, O Frvl 1796W
- Montgomery, Donovan William San Diego Bkly 6716
 3 Mec-2616 Virginia st
- Montgomery, Grace Berkeley Bkly 8752J
 3 LS-111 Shasta st
- Montgomery, Margaret Catherine Eureka
 '1 LS-3883 Piedmont av, O
- Montgomery, Melville Laurence Simi Bkly 1748
 1 Med-2425 Bancroft way
- Montijo, Alberto Octavio Berkeley Bkly 5749W
 4 LS-2784 Ellsworth st
- Monson, George Elliot Berkeley Bkly 3448
 '1s Mec-2524 Hill court
- Moody, Elma Irene Laton Bkly 9828J
 4 LS-Oxford apts
- Moody, Le Roy Santa Monica Bkly 5831
 '4 LS-2647 Dwight way
- Moody, Walter Leland Santa Monica Bkly 5831
 4 LS PreA-2647 Dwight way
- Moomjian, Helen Fresno Bkly 3789J
 1 LS-2524 Dwight way
- Moon, Francis Jhuan Berkeley Bkly 7204J
 '3 CE-1739 Carlton st
- Moon, Lena Belle Los Angeles Bkly 1414J
 4 LS-2720 Dwight way
- Mooney, William Tyrrell Oakland
 4 LS-1085 Forty-third st, O Pied 6451
- Mooradian, Marine Van, Armenia
 1 LS-2502 Telegraph av
- Moore, Andrew Mackenzie Berkeley Bkly 4424J
 4 LS-1820 Arch st
- Moore, Anna Ruth Celestine Berkeley Bkly 9583J
 1 LS-2566 Buena Vista way
- Moore, Charles Alexander Madera
 4 LS and 1 Juris-2701 Hearst av Bkly 2421
- Moore, Charlotte Louise Berkeley Bkly 8213
 '1 LS-1744 Arch st
- Moore, Cynthia Los Angeles Bkly 7247
 8 LS-2520 Virginia st
- Moore, David Harris Cleburne, Texas
 '1 LS-Letterman General Hospital, S F
- Moore, Edwin Peter Santa Rosa Bkly 7929
 1 Mec-2235 Durant av
- Moore, Elizabeth Piedmont Pied 79
 1 LS-44 Farragut av, P
- Moore, Estelle Edith Berkeley Bkly 1821J
 1 LS-2308 California st
- Moore, George Coleman Oakland
 1 Mec-701 Thirty-ninth st, O
- Moore, George Thomas Berkeley Bkly 4050W
 4 LS-1704 Oxford st
- Moore, George William, Jr. Bandon, Ore.
 4 LS and 1 Juris-2701 Hearst av Bkly 2421
- Moore, Irving Washington Nampa, Idaho Bkly 9583J
 1s LS-2566 Buena Vista way
- Moore, Jack Beals Fresno
 '1(1) 3 LS PreM-2642 Bancroft way
- Moore, Jesse Alvin Ceres Bkly 2482
 1 LS-1941 Kittredge st
- Moore, John Paul Berkeley Bkly 6194W
 2 LS PreL-1872 Allston way
- Moore, John Royal Berkeley Bkly 363W
 3 LS PreM-2220 Milvia st
- Moore, Lorin Gerald Long Beach Bkly 7205W
 (1) 2 Com-2411 Virginia st
- Moore, Marjorie Edwina San Francisco Bkly 7066
 1 LS-2581 Ridge rd

- Moore, Merritt Hadden Los Angeles
1 Agr-2832 College av Bkly 1134
- Moore, Mildred Trinidad, Colo.
1 LS-1621 Scenic av Bkly 5577W
- Moore, Phillip Lynde Berkeley
1 LS-1704 Oxford st Bkly 4050W
- Moore, Ralph Hubbard San Diego
2 Mec-2345 College av Bkly 62
- Moore, Samuel Russell Jackson, Minn.
(1) 2 LS PreA-1809 Euclid av Bkly 1615
- Moore, Sarah Leland Weed
1 LS-147 The Uplands Bkly 8976W
- Moore, Wert Emmet Oakland
3 LS-5665 Pryal st, O Pied 4348J
- Moore, William Eldridge Seelye
1 Agr-2420 Channing way Bkly 7404J
- Moran, Cornelius Gladstone Butte, Mont.
3 LS PreL-2717 Hearst av Bkly 5770
- Moran, William Cornelius Lincoln, Nebr.
1 Com-2618 Durant av
- Morrel, Lawrence Fay San Francisco
2 Min-206 Clement st, S F Pac 1120
- Moreland, Even Merle Imperial
3 LS-2632 Haate st Bkly 1033W
- Morfin, José Garcia
Guadalajara, Jalisco, Mex.
1 Mec-37 California st, S F Krny 4263
- Morgan, Burns Newton Lost Hills
1s Min-2600 Durant av
- Morgan, Emerson Burley Santa Barbara
1 LS-2150 Center st
- Morgan, Frank Albert Sonora
4 Min-2646 Dwight way Bkly 4104
- Morgan, Harold Folmer Santa Cruz
1 LS PreM-2329 Dana st Bkly 2343
- Morgan, James G. San Bernardino
4 LS-2401 Durant av Bkly 6504
- Morgan, Margaret E. Auburn
4 LS-2520 Cedar st Bkly 1444
- Morgan, Margaret Judith Butte, Mont.
3 LS-2710 Channing way Bkly 9520
- Morgan, Ramona Frances Honolulu, T. H.
4 LS-2714 Ridge rd Bkly 9093
- Morgan, William Russell San Francisco
1 Mec-3974 Sacramento st, S F Pac 9369
- Morgue, Henry Leonard Durham
2 LS-2600 Durant av
- Moriarty, Thelma Patterson
1 LS-1762 Bushnell pl
- Morin, Frank Berkeley
13 Com-1536 Oxford st Bkly 6225J
- Morinuy, Masa Masanobu San Francisco
3 Mec-1918 Francisco st Bkly 1467
- Morosoli, Antoinette Sabina St Helena
1 LS-2330 College av Bkly 1803
- Morosoli, Eugene B. St. Helena
4 Com-2600 Bancroft way Bkly 1901
- Morrill, Francis Mortimer Los Angeles
1 CE-2340 Telegraph av, O
- Morrill, Lena Marie Berkeley
3 LS-1629 Addison st Bkly 4608W
- Morris, Alfred Bowman Hayward
1s LS-630 Fifth st, Hayward
- Morris, Edward William Oakland
2 LS-1748 Ninth av, O Mer 2448
- Morris, Edwin Hanson, Jr. Berkeley
1 LS-2509 Regent st Bkly 3606J
- Morriss, Esther Catherine Santa Cruz
1 LS-206 Rose av, S F
- Morris, Frances De Kay Berkeley
13 LS-2834 Russell st Bkly 571
- Morris, Grace Leonore San Francisco
4 LS-1504 Masonic av, S F Park 3941
- Morris, Hedley Barry Oakland
1 Mec-4812 Melrose av, O Frvl 787W
- Morris, Leonore Berkeley
3 LS-1115 Milvia st Bkly 5907W
- Morris, Lois Elaine Berkeley
2 LS-1968 El Dorado av Bkly 2030J
- Morris, Mary Sallie Modesto
2 LS-2511 Durant av Bkly 1762W
- Morris, Richard Herman Venice
4 Mec-2219 Channing way Bkly 8668W
- Morrison, Edward Winfield Los Angeles
(1) 3 Agr-2425 Bancroft way Bkly 1743
- Morrison, Frances Elizabeth San Francisco
1(1) 3 LS-720 Guerrero st, S F
- Morrison, Hadley Frederick Crescent City
3 Mec-2107 University av
- Morrison, Ida Edith San Jose
1 LS-2533 Durant av Bkly 665
- Morrison, Jesse Bryan Berkeley
1 Com-2001 Allston way Bkly 6710
- Morrison, Lewis Francis San Francisco
4 LS-760 Thirty-fifth av, S F Pac 201
- Morrison, Mildred Iylene Marysville
2 LS-1548 Twelfth av, S F
- Morrison, Raymond Berkeley
1 Mec-2337 Bancroft way Bkly 1061W
- Morrison, Robert Duane San Luis Obispo
3 Mec-2400 Durant av
- Morrissey, Marc Templeton Orland
4 LS-1711 Euclid av Bkly 3378
- Morrissey, Nora Josephine Hornitas
1 LS-5809 Ayala st, O Pied 5825
- Morrow, Dewey James Ft. Benton, Mont.
3 LS-1711 Euclid av Bkly 3378
- Morrow, Fred Richard Sacramento
2 LS-2235 Blake st Bkly 3962J
- Morse, Allan Arthur Piedmont
1 Com-365 Hillaide av, P Pied 2994
- Morse, Carlton Errol Sacramento
1 LS-2529 College av
- Morse, Celesta May Berkeley
1 LS-2227 Carlton st Bkly 8324W
- Morse, David West Roxbury, Mass.
1(1) 2 CE-2235 Chapel st

- Morse, Edith Berkeley
 2 LS-2227 Carlton st Bkly 8324W
 *Morse, Harold A. Oakland
 1 Med-2338 College av Bkly 1722
 Morse, Howard Copeland Watsonville
 1 CE-2305 Bancroft way Bkly 7461
 Morse, Merlyn Fred Oakland
 *1 LS-2735 Seminary av, O Elm 661
 Morse, Paul Dodson Berkeley
 1 LS-2119 Eunice st Bkly 5294J
 Morse, Vera Frances Berkeley
 4 LS-2536 Benvenue av Bkly 6590W
 Morse, Walter Irving San Francisco
 2 LS-7 Divisadero st, S F Park 4235
 Morshead, John Stuart San Francisco
 *3 LS-1001 California st, S F Frkn 1000
 Morshead, Merrill Constant San Francisco
 2 LS-1001 California st, S F Frkn 1000
 Morton, Dorothy Eleanor Oakland
 1 LS-968 Euclid av Bkly 6289W
 Morton, Helen Caroline Pasadena
 3 LS-2721 Channing way Bkly 808
 Morton, Marion Willis San Francisco
 *1 LS PreM-775 Cole st, S F Park 5306
 Morton, Richard Edward San Francisco
 *3 Agr-1726 Euclid av Bkly 6706
 Mosbacher, Cecil Berkeley
 4 LS-Hotel Whitecotton Bkly 7300
 Moseley, Cyril Fay Willits
 *3 LS-2616 Virginia st Bkly 6716
 *Moses, Florence Emma Oakland
 4 LS-5424 Claremont av, O
 Mossier, John Tod Bakersfield
 *1 CE-2425 LeConte av Bkly 4334
 Moss, Frank Ambrose Australia
 3 Min-2727 Regent st Bkly 5265
 Moss, Thelma Laura San Diego
 4 LS-1720 LeRoy av Bkly 1574
 Mott, Dorothy Jean Petaluma
 1 LS-2001 Haste st Bkly 6213W
 Mott, Gerville Oakland
 4 LS PreM-276 Lee st, O Oakd 9149
 Mott, Isabel Elinor Los Angeles
 2 LS-2624 Virginia st Bkly 3663
 Mott, Orra A. W. San Diego
 *1) 3 LS-2318 Telegraph av Bkly 5964
 Moulin, Evelyn Lenore San Francisco
 1 LS-145 Buena Vista ter, S F Park 5347
 Moulton, Mildred Ripon
 3 LS-2526 Hilgard av Bkly 1441
 Mounts, C. E. Oakland
 *1s LS-3435 Fruitvale av, O Frvl 245
 Mower, Elizabeth Kimball Rockford, Ill.
 *1) 3 LS-1108 Laurel st
 Mower, Margery Augusta Napa
 3 LS-2332 Dwight way Bkly 1357W
 Mowry, Charles Edward Berkeley
 1 Mec-2419 Durant av Bkly 9149
- Moyle, Chester Arthur Modesto
 3 LS PreM-2618 Durant av Bkly 2765
 Moyle, Margaret Grinnell, Ia.
 (1) 3 LS-2624 Virginia st Bkly 2128W
 Moynihan, Leo John Oakland
 (1) 2 LS PreM-314 Perkins st, O Lksd 2193
 Mudge, Frank Raymond Berkeley
 *1 Com-2228 Dana st Bkly 1063
 Mudgett, Zetha De Berry Berkeley
 3 LS-2524 LeConte av Bkly 2531
 Mueller, Louise Willamette San Francisco
 1 LS-1343 Church st, S F Msn 1814
 Muentner, Raymond Henry Berkeley
 4 Mec-2424 Channing way Bkly 734W
 Muesse, Helen Elizabeth Oakland
 1 LS-3876 Cerrito av, O
 Muir, James Lyman Los Angeles
 *12 Agr-2345 College av Bkly 62
 Muir, John Gilroy San Francisco
 *13 LS-2330 Telegraph av Bkly 4429
 Mulkey, Marion Jefferson Davis Creek
 3 LS and 1 Juris-2634 Bancroft way Bkly 1276
 Mull, Nathan Herbert Bakersfield
 4 LS-2425 LeConte av Bkly 4334
 Mullarky, Douglas Bend, Ore.
 *1) 3 LS-2345 College av Bkly 62
 Mullarky, Robert Emmett Lewiston, Idaho
 (1) 2 LS PreM-2337 Telegraph av Bkly 5025W
 Muller, Harold Powers Oakland
 1 LS PreM-3909 Lynwood av, O Mer 1841
 Muller, Raymond Alvin Berkeley
 *2 LS-2023 Bancroft way Bkly 234
 Mullgardt, Alex Steffens San Francisco
 *13 Chem-2717 Hearst av Bkly 5770
 Mullin, Wayne Francis Los Angeles
 *1) 2 Com-2120 Kittredge st
 Mullins, Peter Joseph San Francisco
 1 LS PreL-1883 Fifteenth st, S F Mrkt 7801
 Mullins, William Raymond San Francisco
 1 Chem-85 Central av, S F Park 8454
 Mulrooney, Ernest James Covina
 2 Mec-142 Hawthorne ter
 Multanen, Einard Parlier
 1 Com-2519 Durant av Bkly 8543
 Multer, Marcus Jay Calistoga
 1 LS PreL-2420 College av Bkly 906J
 Mulvany, Herbert Charles Berkeley
 3 Mec-1521 Hopkins st Bkly 632W
 Mumm, Robert Hull Sacramento
 3 Agr-University Farm, Davis
 Mundhenk, Harold Otto Watsonville
 3 LS and 1 Juris-2500 Bancroft way Bkly 5540W
 Mundorf, Alice Elizabeth Sonora
 4 Com-2721 Channing way Bkly 808

- Munn, Edward Trowbridge Berkeley
2 Com-2611 Durant av Bkly 4525W
- Munn, Glynn Hazel Bishop
11 Com-2330 College av Bkly 1803
- Munn, Harold Frederick Pasadena
1 Mec-2521 Channing way Bkly 9306
- Munn, Helen Trowbridge San Francisco
4 LS-Treehaven apts Bkly 8841
- Munro, Dorothy M. Oakland
2 LS-6129 Hillegass av, O Pied 4991
- *Munro, Dorothy Victoria Berkeley
4 LS-1410 Bonita av Bkly 4015
- Munter, Edgar Jacob San Francisco
1 LS PreM-125 Palm av, S F Pac 5531
- Murcell, Jack Cook Sacramento
1 Com-2214 Dana st Bkly 1160
- Murch, Frances Eleanor Berkeley
13 LS-2629 LeConte av Bkly 5174J
- Murdoch, Helen Wilson El Paso, Tex.
8 LS-2526 Hilgard av Bkly 1441
- Murdoch, Edith King San Francisco
2 LS-2644 Benvenue av Bkly 1759J
- Murison, Irene Rowlands Berkeley
11s LS-2743 Alcatraz av Pied 1860
- Murley, Elizabeth Puente
(1) 8 LS-2636 Channing way
- Murphey, Eileen Berkeley
2 Com-1911 Parker st Bkly 616
- Murphy, Arthur Edward Napa
11 LS PreL-2134 Oxford st Bkly 409
- Murphy, Bessie San Francisco
3 LS-532 Steiner st, S F Park 7276
- Murphy, Delacour Ignatius San Francisco
2 Mec-1269 Second av, S F
- Murphy, Elizabeth Agnes Berkeley
2 LS-1821 Milvia st Bkly 3613W
- *Murphy, Ethel Mary Modesto
4 LS-2214 Dana st Bkly 5048W
- Murphy, Francis Foster Redding
11 Mec-2318 Telegraph av Bkly 5964
- Murphy, Gladys Ethel Napa
4 LS-1700 Euclid av Bkly 6789
- Murphy, Mildred Alice Santa Ana
3 LS-Berkeley Inn Bkly 6370
- Murphy, Raymond Lawrence San Francisco
1 LS-872 Haight st, S F Park 7802
- Murray, Bessie San Francisco
3 LS-1050 Eddy st, S F West 1013
- Murray, Eleanor Marie San Francisco
11 LS-4108 Eighteenth st, S F Park 2437
- Murray, Evelyn Grunsky Stockton
1 LS-2628 Durant av Bkly 4772
- Murray, Howard Slater San Francisco
3 CE-2507 Channing way Bkly 8859W
- Murray, Leo Peter San Francisco
3 Mec-2459 Larkin st, S F
- Murray, Norman Berkeley
(1) 2 LS-1639 California st
- Murray, Richard Gordon Little Rock, Ark.
3 Com-2345 College av Bkly 62
- Murthin, Evelyn Elin San Francisco
4 LS-2731 Regent st Bkly 2075
- Musgrave, Elinor Frances Napa
1 LS-1402 LeRoy av Bkly 5956W
- Mussey, Dorothea San Diego
1 LS-2525 Durant av Bkly 1969
- Myers, Chalmers Bomer Los Angeles
(1) 2 Mec-2426 Virginia st Bkly 564
- Myers, Ernest Edgar Oakland
3 LS PreM-1234 E Eighteenth st, O Mer 455
- Myers, Herbert Council Grove, Kan.
1 LS PreL-552 Twenty-third st, O Oakd 3698
- Myers, Hester Florence Berkeley
4 Com-109 Hillcrest rd Bkly 3022W
- Myers, James Payne San Francisco
1 Agr-734 Dolores st, S F Valen 4503
- Myers, Marie Louise Berkeley
2 LS-109 Hillcrest rd Bkly 3022W
- Myers, Robert Page El Paso, Tex.
1 Agr-2315A Parker st Bkly 7713
- Myhrs, Cora Ardis Mills College
12 LS-2542 Durant av Bkly 1364
- Nagatomi, Teichiro San Francisco
11 LS-1666 Post st, S F West 1806
- Nagel, Helen Madaline Dixon
3 LS-2241 Durant av Bkly 1113J
- Nakabayashi, Koshiro San Francisco
3 Com-1739 Euclid av Bkly 6441
- Nakada, James Robert San Francisco
14 LS and 1 Med-1739 Euclid av Bkly 6441
- Nakajima, Isoji Japan
1s LS-1520 Walnut st, A
- Nakashima, Shidao Fred Hollywood
2 Com-1739 Euclid av Bkly 6441
- Nakayama, Joseph Thomas Oakland
1 Med-551 Seventh st, O
- Nasatir, Abraham Los Angeles
2 LS-708 Oak st, O Oakd 5776
- Nash, Charlotte Adair Bakersfield
1 LS-2598 Buena Vista way Bkly 3366
- Nash, George Norris, Jr. Berkeley
3 Com-2758 Piedmont av Bkly 4993J
- Nasser, James Edward San Francisco
11 LS PreM-3719 Sixteenth st, S F Mkt 9428
- Nasser, Richard John San Francisco
13s LS PreM-3719 Sixteenth st, S F Mkt 9428

Nathan, Helen Kathryn	Sacramento	Nelson, Arnold Harvey	Olovia
4 LS-1624 Scenic av	Bkly 4217	1 LS-Fink apts	
Nathanson, Anita H.	Santa Rosa	Nelson, Bessie Elizabeth	Riverside
4 LS-2727 Durant av	Bkly 2211	4 LS-2721 Channing way	Bkly 808
Nauman, Gerald Marston	San Francisco	Nelson, Cyril Barton	Woodland
2 CE-2601 Durant av	Bkly 28	3 Mec-2248 Telegraph av	Bkly 9011
Navarro, Vincente Gravador	Berkeley	Nelson, Elizabeth Fontaine	San Francisco
1 Agr-1822 University av	Bkly 1288	2 LS-848 Waller st, S F	Park 8552
Naylor, Esther Marie	Stockton	Nelson, Gladys Christine	St. Helena
*2 LS-2721 Haste st	Bkly 8800	2 LS-2226 Chapel st	Bkly 879
Naylor, Forest Underwood	Springfield, Mo.	Nelson, Harriette Louise	San Francisco
8 Mec-2525 Durant av	Bkly 8411	2 LS-848 Waller st, S F	Park 8552
Naylor, Frank Linden, Jr.	Berkeley	Nelson, Harry Buchanan	St. Johns, Aria.
4 Com-2200 Durant av	Bkly 140W	1 Min-2318 Telegraph av	Bkly 5964
Naylor, Nathan Allen	Long Beach	Nelson, Helen P.	Los Angeles
(1) 8 Mec-2525 Durant av	Bkly 8411	1 Com-1547 Euclid av	Bkly 6681
Neal, Augustus Clayton	Los Angeles	Nelson, Helen Sophia	Byron
*2 Mec-2418 Dana st	Bkly 3814W	1 LS-1631 Channing way	Bkly 7841W
Neal, Elizabeth	Los Angeles	Nelson, Hilda Henrietta	San Francisco
3 LS-2418 Dana st	Bkly 3814W	2 LS-2429 Channing way	Bkly 4648
Neal, Eva	Sacramento	Nelson, Jean Marjorie Mosher	Berkeley
2 LS-2384 Bowditch st	Bkly 1358W	*4 LS-2319 Blake st	Bkly 2466
Neal, Howard Harris	Sacramento	Nelson, Kathryn Adelaide	Scotia
2 Com-2647 Durant av	Bkly 102	1 LS-1621 Scenic av	Bkly 5102
Neddenriep, Dorothea	Fredericksburg	Nelson, Lena H.	Los Angeles
1 LS-5474 Boyd av, O	Pied 6871W	1 LS-2682 Durant av	
Needham, Frank Edwin	Berkeley	Nelson, Leslie Scott	Redlands
2s Com-1708 Milvia st	Bkly 4313W	4 Mec-2425 LeConte av	Bkly 4834
Needham, Muriel Bernard	Chowchilla	Nelson, Mary Bertina	Berkeley
1 LS-2611 Durant av	Bkly 4525W	(1) 3 LS-2680 Bancroft way	Bkly 4488J
Needham, Stewart Smith	Los Angeles	Nelson, Percy	Oakland
1 LS-2582 Hillegass av	Bkly 561J	4 Com-3880 Howe st, O	Pied 2856W
Neff, Andrew M.	Altadena	Nelson, Thomas Wills	Bakersfield
4 LS-2241 Durant av		*4 LS and 1 Juris-2200 Piedmont av	Bkly 6681
Neff, Benjamin Henry	Concord	Nelson, Walter Edgar	Turlock
2 LS PreL-Concord	Concord 29	1 CE-2420 College av	
Neff, Francis William	Concord	Neache, George Elwood	Elk Grove
2 Com-2501 Ridge rd	Bkly 1835	2 LS PreM-4341 Montgomery st, O	Pied 2346W
Neff, John K.	Concord	Neufeld, Henry David	Reedley
*1 Mec-Concord	Concord 29	2 LS PreM-2508 Haste st	Bkly 767
Neff, Virginia Emma	Long Beach	Neumiller, Irving L.	Stockton
*1s LS-1060 Merced av		8 LS PreL-1815 Highland pl	Bkly 1682
Nehr, Henry Louis	Berkeley	Neumiller, Leonore Logan	Stockton
2 LS PreL-1206 Neilson st		8 LS-2709 Channing way	Bkly 8528
Neideffer, Elisabeth	Sacramento	Neves, Raymond Marshall	Auburn
1 LS-2428 Channing way	Bkly 6408	1 LS-2214 Union st	Bkly 2488
Neidenfer, Lee Miller	Sacramento	Nevins, Leland Starr	Olovia
2 LS-2626 Regent st	Bkly 4518J	(1) 3 LS-1148 Colusa av	Bkly 8242W
Neil, Russell Hinton	Maryville, Mo.	Nevison, Beverly Malcolm	Monterey
*1s Mec-1522 LeRoy av	Bkly 8049W	4 LS-656 Sixtieth st, O	
Neilson, Francis Edward Anthony	Alameda	Newbauer, Mary Elizabeth	Oakland
1 LS-1419 Versailles av, A	Ala 3822J	*1 LS-2035 Tenth av, O	Mer 386
Neister, Mary Abigail	Pomona	Newby, Nathan, Jr.	Los Angeles
(1) 8 LS-2520 Durant av		1 LS-2425 Bancroft way	Bkly 1743
Neitzel, Frank Norris	San Francisco	Newcomb, Grace Joy	Pocatello, Idaho
*1 LS-2200 Piedmont av	Bkly 6601	2 LS-1029 Mariposa av	Bkly 8019J
Nelsen, Blanche La Perle	Los Angeles		
8 LS-2786 Haste st	Bkly 8680		

- Newcomer, Emerson Royer Los Angeles
2 LS PreM-1640 Euclid av
- Newell, Alma Deborah Berkeley
3 LS-2726 Derby st Bkly 7178J
- Newell, Josephine Louise San Francisco
21 LS-226 Clinton Park, S F Mrkt 2293
- *Newell, Sarah Sword New Castle, Pa.
4 LS-2525 Durant av
- Newgren, Edna Olivia Pasadena
2 LS-2736 Haste st Bkly 8680
- Newhall, Ione Oakland
21 LS-1748 Webster st, O Lkad 6048
- Newman, Anne L. Murray, Utah
4 LS-2125 Hearst av Bkly 2125
- Newman, Eva Mildred Murray, Utah
11 LS-2125 Hearst av Bkly 2125
- Newman, Harold Lawrence Alameda
11s Mec-2242 San Jose av, A Ala 26
- Newman, Lois Fellows Berkeley
1 LS-1984 Marin av Bkly 4920W
- Newsom, Amy Jane Berkeley
1 LS-5570 Lawton av, O Pied 5670W
- Newsom, Mary Ernestine San Francisco
3 LS-2721 Channing way Bkly 808
- Newton, Howard Egbert
Strasbourg, Canada
1 LS PreM-1046 Peralta av
- Newton, Marie Elwood Strasbourg, Canada
(1) 2 LS-1046 Peralta av
- Newton, Albert H. Etna Mills
1 LS PreL-1640 Euclid av Bkly 7057
- Newton, Cyria Allen Aberdeen, Wn.
3 LS-1619A Scenic av
- Newton, Edith Alvord Berkeley
3 LS-2218 Durant av Bkly 1934W
- Newton, Francis Locke Piedmont
21 LS-100 Bonita av, P Pied 3091
- Newton, William Eaton Oakville
2 Mec-2228 Dana st Bkly 1053
- Ng, Bock Jaw San Francisco
11 Chem-1927 Addison st
- Nicholas, Marion Russell Ovid, Mich.
1 LS-2117 Center st
- Nichols, Clifton Taylor Alameda
1s Com-2145 San Antonio av, A Ala 2929W
- *Nichols, Elinor Boyle Butte, Mont.
4 LS-2325 Channing way Bkly 695
- Nichols, Herman Drew Piedmont
1 LS-44 Crocker av, P Pied 607
- Nichols, Jesse Eugene Mendocino
1 LS-4657 Park blvd, O Mer 79
- Nichols, Mildred Edith Berkeley
4 LS-2216 Channing way Bkly 5631
- Nichols, Viola Mary Santa Paula
3 LS-1547 Euclid av Bkly 6681
- Nicholson, Genevieve Belle Patterson
2 LS-2526 Hilgard av Bkly 1441
- Nicholson, Lois Belle Los Angeles
(1) 2 LS-2632 Durant av Bkly 5137W
- Nicholson, Mary Genevieve San Francisco
2 LS-1141 Filbert st, S F Frkn 442
- Nickel, Edward August Berkeley
4 LS PreA-1935 Berryman st Bkly 2489J
- Nickell, Richard William Spokane, Wn.
3 Com-2220 Dwight way Bkly 7750J
- Nickerson, Chauncey Maynard Providence, R. I.
1 Min-2001 Allston way Bkly 6710
- Nickle, Harold Albert Glendora
(1) 2 LS-2828 College av
- Nickle, Neil Clark Glendora
1 LS-2828 College av
- Niehau, Hazel Berkeley
11 Com-2123 Carlton st Bkly 4016W
- Nielsen, Carlisle Dohn Vallejo
3 LS and 1 Juris-2527 Ridge rd Bkly 6107
- Nielsen, Helga Marie Russell
4 LS-2526 Hilgard av Bkly 1441
- Nielsen, Marion Hill Oakland
21 LS-858 Eighteenth st, O Oald 3032
- Nielsen, Niels Iverson Fresno
3 Agr-2500 College av Bkly 5942
- Nielsen, Victor Waldemar Oakland
14 Com-820 Linden st, O Oald 2097
- Nielson, Leland Harris Ferndale
3 Chem-2634 Bancroft way Bkly 1276
- Nielson, Lester Ralph Selma
1 Agr-2642 Bancroft way Bkly 653
- Nieto, Anita Victoria San Francisco
2 LS-3933 Clay st, S F Pac 1608
- Nigg, Gilbert Winford Covina
2 Mec-2500 College av Bkly 5942
- Nightingale, Bruce Irvin Oakland
1 Mec-969 Fifty-sixth st, O Pied 3451W
- Nilon, William Thomas Nevada City
3 LS-2601 Channing way Bkly 5904
- Nilson, Walter T. Oakland
4 LS and 1 Juris-1030 Linden st, O Lkad 1957
- Nimmo, Violet Marion Detroit, Mich.
(1) 4 LS-2628 Benvenue av Bkly 4993J
- Nisbet, Archie Pomona
22 LS-2647 Durant av Bkly 102
- Nishioka, Roichi Los Angeles
2 LS PreM-1739 Euclid av Bkly 6441
- Nitta, Arata Leo Oakland
4 Chem-1739 Euclid av Bkly 6441
- Nittler, Anastasia Oakland
11s LS-2159 Fifty-first av, O Frvl 2038W
- Nitzsche, Gertrud Elisabeth Denver, Colo.
2s LS-2523 Dana st Bkly 2368W
- Nix, Harold Jay San Francisco
2 LS-2421 Larkin st, S F Frkn 316
- Nixon, Earl L. Pocatello, Idaho
1 Com-2521 Dwight way Bkly 4983W
- Nixon, Edna Janet Pocatello, Idaho
1 Com-2521 Dwight way Bkly 4983W

Noack, Edward Franklin	Sacramento	Norman, Guido Frederick	Eureka
2s LS-1423 Morton st, A	Ala 2399	2 Med-746 Shrader st, S F	Mrkt 3354
Noack, Harold Quincy	Oakland	Norman, Lennie Manona	San Jose
2 Chem-1726 Euclid av	Bkly 6708	¹ ls LS-2400 Haste st	
Noakes, Muriel Genevieve	San Jose	Norris, Allen Gilbert	Centerville
4 LS-2519 Hillegaass av	Bkly 477	1 LS PreL-2421 Durant av	Bkly 1503W
Noble, Emily Elizabeth	Berkeley	Norris, Dorothy E.	Oroville
2 Com-2746 Russell st	Bkly 1751	¹ 1 LS-2530 College av	
Noble, Henry Elbert	Glendale	Norris, Ralph Elmer	Oakland
¹ (1) 2 Com-		4 Agr-2425 LeConte av	Bkly 4334
Noble, Katherine	Oakland	Norsworthy, Norman Oliver	Heber
2 LS-5129 Genoa st, O		2 Com-2605 Durant av	Bkly 6981
Noble, Lona M.	Oakland	Norton, Cecil Conrad	Los Angeles
1 LS-5129 Genoa st, O		4 Agr-University Farm, Davis	
Nobles, Dorothy Aline	Bow, Wn.	Norton, Frank Butler	Berkeley
¹ (1) 2 LS-2430 Bancroft way		2 Mec-2827 Woolsey st	Bkly 2082
Noda, Tadas	Sacramento	Norton, Gertrude May	Oakland
¹ 1 Agr-1739 Euclid av		2 LS-373 Warwick av, O	Oakd 6674
Noe, Leland Elbert	Oakland	Norton, Lewis Marshall	Healdsburg
1 Chem-2607 Hearst av	Bkly 5913	2 LS PreL-2529 Hearst av	Bkly 40
Noël, Martha	Berkeley	Norton, Mabel Florence	Turlock
¹ 1 LS-2326 Fulton st	Bkly 2972W	3 LS-2512 Etna st	Bkly 1642
Noël, Rebecca Henrica	Berkeley	Nousseilletes, Louise Cecile	San Francisco
¹ 1 LS PreL-2326 Fulton st	Bkly 2972W	2 LS-1052 Jackson st, S F	Frkn 2895
Noeltner, Maybell Frances	San Diego	Noyes, Donald Sanborn	San Francisco
1 LS-2331 Dwight way	Bkly 5374J	4 Mec-Treehaven apts	Bkly 8099J
Noer, Rebecca Aline	Riverside	Noyes, Elizabeth	Oakland
3 LS-2714 Ridge rd	Bkly 9098	1 LS-264 Lee st, O	Oakd 2697
Nola, Alfred John	Concord	Noyes, Florence	Berkeley
² 2 Mec-2605 Durant av	Bkly 6981	4s LS-1434 Greenwood ter	Bkly 1767J
Nolan, Alta Cecile	San Francisco	Noyes, Harmon David	Oakland
1 LS-2524 Washington st, S F		¹ (1) 2 LS PreL-478 Nineteenth st, O	
	Flmr 2458		Oakd 287
Nolan, Alva Alycia	San Francisco	Noyes, Louise Walker	San Francisco
2 LS-228 Noe, S F	Mrkt 9561	3 Com-Treehaven apts	Bkly 8099J
Nolan, Eleanor Genevieve	Antioch	Nuffer, Leslie Lee	El Centro
¹ ls LS-454 Sixteenth av, S F	Pac 4517	¹ 3 LS PreL-2618 Grove st	
Noles, Wallace	Berkeley	Null, Louis Douglas	Sacramento
1 Agr-1804 Grant st	Bkly 3929W	4 LS-2614 Dwight way	Bkly 5988
Nollar, Perry Fisk Wallace		Nunamaker, Neal Newman	
	Great Falls, Mont.		Hood River, Ore.
(1) 2 Com-1612 Josephine st		3 LS-2607 Hearst av	Bkly 5913
Nombalais, Alice	Lincoln, Neb.	Nunan, Marguerite Theresa	Oakland
1 Com-2712 Barber st	Bkly 4082W	¹ 1 LS-2033 Seventh av, O	
Norcross, Harold Leslie	Berkeley	Nunn, Georgia Jane	Brentwood
² 1 LS-2235 Chapel st		¹ 1 LS-5634 College av, O	Pied 6879
Nordin, Audrey Gaige	Alameda	Nunn, William Harrison	San Francisco
1 LS-5283 Broadway ter, O	Pied 449J	² 2 CE-2019 Channing way	Bkly 1518
Nordin, Ethlyn Gaige	Oakland	Nurse, Alvin David	New Orleans, La.
¹ 1 LS-5283 Broadway ter, O	Pied 449J	1 LS PreM-4026 Lusk st, O	Pied 2570W
Nordling, Oscar Philemon	Oakland	Nusbaum, Mark Harry	Portland, Ore.
¹ 1 LS PreA-1753 Pleasant Valley av, O		2 LS-2127 Kittredge st	
Nordyke, Charles Holmer	Berkeley	Nutt, Gerald George	Mendon, Ill.
¹ ls Min-2637 Piedmont av	Bkly 5200	¹ 1 Com-1526 Scenic av	Bkly 5045J
Norman, Daisy Allene	Antioch	Nutting, Kenneth Ray	Hollister
2 LS-2628 Benvenue av	Bkly 4895J	3 LS PreL-2501 Ridge rd	Bkly 1335

Nyman, Harriett Jeffers	Berkeley	Ogden, Enid Muriel	Berkeley
2s LS-1707 Grove st	Bkly 6967J	1 LS-2116 Bancroft way	Bkly 8859W
Nyswonger, Blanche	Denver, Colo.	*Ogden, Lester Ray	Oakland
11s Agr-2220 Bancroft way	Bkly 4603J	4 LS-4028 San Juan st, O	Fvrl 2213J
Oak, Harold Lebbeus	Riverside	Ogilvie, Eloise	Oakland
1 Chem-2531 College av		2 LS-4135 Terrace st, O	Pied 1893
Oakley, James H.	Piedmont	Ogle, John Alan	Rio Dell
2 Com-2 Mesa av, P	Pied 5860	1 Agr-1541 Milvia st	Bkly 7188J
Oakley, John Walter	Piedmont	O'Grady, James	San Francisco
4 CE-2 Mesa av, P	Pied 5860	21 LS PreM-3175 Army st, S F	Man 5376
O'Bannon, Anna	San Diego	O'Grady, James O.	Oakland
11 LS-120 Ardmore rd	Bkly 9407R1	2 Mec-456 Stow av, O	Mer 2895
O'Bannon, Mary Bowie	San Diego	Ohanesian, John	Fresno
12 LS-120 Ardmore rd	Bkly 9407R1	3 LS PreM-1132 Amador av	
Oberholtz, Frances Louise	National City	O'Hara, Elwin Leo	Oakley
3 LS-2627 Hearst av	Bkly 4009	3 Agr-2634 Bancroft way	Bkly 1276
O'Brien, Alyce Ramona	Vallejo	Ohashi, Senjiro	San Francisco
1 LS-2248 Blake st	Bkly 3346J	2 LS-1739 Euclid av	Bkly 6441
O'Brien, Bessie Ellen	Berkeley	Ohn, Asta	Hollister
21 LS-2022 Blake st	Bkly 3746J	2 LS PreM-1632 LeRoy av	Bkly 8271W
O'Brien, Edgar David	Berkeley	Ohrwall, John Philip	Hollister
3 Agr-University Farm, Davis		11 Agr-Hotel Oakland	Lksd 100
O'Brien, George James	Berkeley	Okada, Gishichi George	San Francisco
4 LS-2251 College av	Bkly 9107	11 Mec-2601 College av	
O'Brien, Glen Thomas	Oakland	Okada, Hana	San Francisco
4 Min-5142 Coronado av, O	Pied 1978W	3 Com-1 Orchard Lane	Bkly 3339
O'Brien, Louis John	Victoria, B. C.	O'Keefe, Violet Frances	San Francisco
1 Com-2415 Bowditch st	Bkly 8650J	2 LS-2429 Channing way	Bkly 4648
Oca, Gregorio Rico	Manila, P. I.	Okie, Jeannette A.	Pasadena
11 (1) 3 Mec-1822 University av		21 LS-2519 Ridge rd	Bkly 7614
Ochsner, Grover Jerome	Sacramento	Okuma, Genzo	Palo Alto
3 LS and 1 Juris-2100 Grove st		14 CE-2157 Dwight way	Bkly 2580
	Bkly 9262J	Okuno, Youtaro	Kurayoshi, Japan
Ockenden, Grace	San Francisco	4 LS-1918 Francisco st	Bkly 1467
2 LS-1474 Funston av, S F		Olanié, Mildred Helen	Oakland
O'Connor, Barry John	San Francisco	4 LS-528 Chetwood st, O	Pied 7043J
21 LS PreL-2609 Hillegeass av		Olauson, Erling	Pinole
O'Connor, Clifford Felix	Red Bluff	11 CE-Box 171, Pinole	Pinole 38J
2 CE-175 DeSoto st, S F		Olberg, Carl Joseph I.	Irene, S. Dak.
O'Connor, Gerald Brown	San Francisco	1 LS-2422 McKinley av	Bkly 9441W
3 LS PreM-660 Bush st, S F		Olberg, Frederick Herman	Irene, S. Dak.
O'Connor, John Emmet	Sacramento	4 LS-2422 McKinley av	Bkly 9441W
21 LS PreL-2214 Dana st	Bkly 1160	Olcese, Josephine, M. F.	Hornitos
O'Connor, John James, Jr.	San Francisco	3 LS-2721 Haste st	Bkly 8800
4 LS PreM-2435 College av	Bkly 1416	Olender, Tobie	Fresno
O'Connor, Thomas Charles, Jr.	Reno, Nev.	3 LS-2318 Telegraph av	Bkly 5964
1 Med-926 Tulare st	Bkly 8195W	Oliphant, Charles Fred	Anderson
O'Connor, Vincent Daniel	San Francisco	1 LS-2146 Shattuck av	
3 LS PreM-2316 Bowditch at	Bkly 1416	Oliver, Albert E.	Piedmont
Odashima, Yozo	San Francisco	3 Agr-2607 Hearst av	Bkly 5913
11 LS-1760 Post st, S F	Flnr 2199	Oliver, Boyd Emery	Sacramento
Offield, Herbert Lloyd	Berkeley	2 CE-2501 Ridge rd	Bkly 1335
3 LS PreL-2315 Telegraph av	Bkly 557	Oliver, Byron King	Oakland
O'Gara, Mirian Anthoinette	San Francisco	1 Com-2831 Richmond av, O	Lkad 5061
1 LS PreM-1142 Filbert st, S F		Oliver, Floyd Elmer	Pomeroy, Wn.
Ogawa, Francis Satoshi	Honolulu, T. H.	1 LS-1434 Jackson st, O	Oakd 2026
2 LS-1739 Euclid av	Bkly 6441	Oliver, Lester Merle	Pomeroy, Wn.
Ogden Beulah	Visalia	11 Com-1434 Jackson st, O	Oakd 2026
1 LS-2636 Channing way	Bkly 7675		

- Oliver, Marguerite Gregory Colton
 4 LS-1524 Arch st Bkly 1421
 Oliver, Mary Ethel San Francisco
 4 LS-2530 Ridge rd Bkly 7084
 Oliver, Mildred H. Oakland
 3 LS-1010 Lakeshore av, O Oakd 8837
 Oliver, Tom Keyser Berkeley
 3 Agr-2529 Hearst av Bkly 40
 Olmsted, Dorothy Jesse Petaluma
 12 LS-2714 Ridge rd Bkly 9093
 Olmsted, Gardner M. Oakland
 4 Agr-University Farm, Davis
 Olmstead, William Harold Eureka
 12 Chem-2245 Hearst av Bkly 6066W
 Olney, Herbert Elbert San Francisco
 28 LS PreL-3330 Twenty-third st, S F
 Msn 4401
 Olney, John McLean Berkeley
 1 LS-2702 Dwight way, Bkly 1939
 O'Looney, James Francis San Francisco
 21 Mec-2400 Haste st
 Olsen, Myrtle Emily San Francisco
 21 LS-132 Highland av, S F Msn 1035
 Olson, Axel Olaf San Francisco
 21 Mec-Y M C A, S F
 Olson, Florence Marie San Francisco
 1 LS-3476 Twenty-first st, S F Msn 3106
 Olson, Lorena Dale Berkeley
 21 LS-2328 Carlton st Bkly 8246J
 Olson, Mabel Ann San Francisco
 1 LS-18 Castro st, S F Park 663
 Olson, Marion Orlando Patterson
 28 LS-2605 Durant av Bkly 552
 Olson, Paul Wilberth Warren, Minn.
 1(1) 3 Min-2406 Bancroft way
 Bkly 6428
 Olsson, Reuben Theodore Danville
 1 Com-2803 Parker st Bkly 8878
 O'Malley, Margaret Gertrude Buffalo, N. Y.
 (1) 2s LS-Hotel Whitecotton Bkly 7300
 O'Malley, May Eileen Buffalo, N. Y.
 1 LS-Hotel Whitecotton Bkly 7300
 Oman, Katherine L. Spokane, Wn.
 4 LS-1589 LeRoy st Bkly 9254W
 O'Neil, Paul Anthony Sacramento
 1 LS PreL-2517 Regent st Bkly 3606W
 O'Neill, Alice Mary San Francisco
 1 LS-2888 Folsom st, S F Valen 5255
 *O'Neill, Catherine Mary San Francisco
 4 LS-2024 Channing way
 O'Neill, Frank Elisha San Francisco
 2(1) 4 Min-2227 Dwight way
 Onions, William Ellwell Alameda
 1s LS-1166 Park av, A Ala 2728W
 Orban, Katherine Martha Pasadena
 (1) 2 LS-2725 Channing way Bkly 7950
 Ord, Ellen Frances Berkeley
 3 Agr-2602 Webster st Bkly 3788W
 Ordonez, George Henry San Francisco
 1 Agr-626 Haight st, S F Park 3146
 Orendorff, Nancy Fay Chico
 (1) 2 LS-2328 Bowditch st Bkly 2152W
 Orme, Eugene John Oakland
 1 LS PreM-580 Williams st, O
 Oakd 8568
 Orme, Richard Edward Oakland
 1 LS PreM-580 William st, O Oakd 8568
 Orozco, Maxine Josephine Berkeley
 4 LS-1637 Fairview st
 Orr, Agnes Lucille Berkeley
 (1) 2 LS-2343 Roosevelt st
 Orr, Iva Elma Gazelle
 4 LS-2318 Telegraph av Bkly 5964
 Orth, Fred William Los Angeles
 14 LS-2332 College av Bkly 1134
 Osborn, Coral L. Underwood, Minn.
 2(1) 3 LS-2815 Regent st
 Osborn, Dorothy Edna Berkeley
 1 LS-2405 Bowditch st Bkly 2842W
 Osborn, John Franklin Turlock
 4 Agr-1730 La Loma av Bkly 8716
 Osborn, Lawrence McDonald Oakland
 1Mec-475 Hudson st, O Pied 2767J
 Osborn, Maurice Eldon Oakland
 1 LS PreL-406 Hudson st, O
 Osborn, Violet Lee Lansing, Mich.
 3 LS-2405 Bowditch st Bkly 2842W
 Osborn, Vivian Eva Berkeley
 1 LS-2405 Bowditch st Bkly 2842W
 Osborn, Winifred May Boston, Mass.
 4 LS-2405 Bowditch st Bkly 2842W
 Osborne, Dorothy Santa Barbara
 4 LS-2327 Bancroft way
 Osborne, Margaret Santa Barbara
 (1) 2 LS-2732 Channing way Bkly 7026
 Osborne, Theodore Hooker Santa Barbara
 1 LS-2248 Telegraph av Bkly 9011
 Osborne, Vivian Costroma Houston, Tex.
 4 LS-2029 Blake st Bkly 3746W
 Osburn, Dorothy Frances Lincoln
 1 LS-2237 Haste st
 Osburn, Marvin George San Francisco
 1 LS PreL-2630 Bancroft way
 Bkly 4488J
 Osgood, Lois Colusa
 3 Com-2635 Hillegass av Bkly 2491J
 O'Shaughnessy, Francis John San Francisco
 2 CE-2610 Durant av Bkly 7804
 O'Shea, Clara Brown Long Beach
 21s LS-2231 Shattuck av Bkly 9597W
 Oswald, Adolph H. San Francisco
 11 Min-2925 Webster st, S F Flmr 2707
 Otsuky, Saku Berkeley
 2s LS-R. F. D. Box 376
 Ott, Emma Julia C. Stockton
 21s LS-2153 Russell st Bkly 7097W
 *Otter, Blanche Florence Milwaukee, Wis.
 4 LS-1431 Arch st Bkly 7605J
 Otter, James Dixon Berkeley
 1 Com-1431 Arch st Bkly 7605J

- Otterson, John Wesley Beverly Hills
2 Com-1445 Oak st, O
- Otto, Alfred Paul Oakland
2 LS-2610 Durant av Bkly 7804
- Overacher, Charles Bernard, Jr. Niles
1 Mcc-2421 Durant av Bkly 1503W
- Overton, Edward Charles Alhambra
3 LS-2616 Virginia st Bkly 6716
- Overton, Ralph Alonzo Alhambra
3 Mcc-2616 Virginia st Bkly 6716
- *Oviedo, George Francis San Francisco
2 Med-132 Appleton av, S F Valen 5248
- Owen, Allison Donham Berkeley
1 Com-511 Boulevard way, P Lksd 5282
- Owen, Fred Brewster Anaheim
3 Mcc-2516 Bancroft way Bkly 2277J
- Owen, Genevieve Calexico
2 LS-1547 Euclid av Bkly 6681
- Owen, Gladys Oakland
2 LS PreL-124 Kempton av, O Oakd 2215
- Owen, James Wayland San Francisco
2 LS-2620 Bancroft way Bkly 855
- Owen, Margaret Los Gatos
1 Agr-2515 LeConte av Bkly 4561
- Owenhouse, Manuel James Bozeman, Mont. Bkly 5831
2 Mcc-2647 Dwight way
- Owens, Harriet B. Santa Ana
1 LS-2519 Hillegass av Bkly 477
- Owens, Mae Agnes Madera
2 LS-1524 Scenic av Bkly 9122J
- Owens, Peter William Berkeley
1 Com-2118 Bancroft way Bkly 154
- Owens, Ruth Irene Stockton
1s Com-1728 Sonoma av Bkly 9351
- Owers, Enid Coronado
1 LS-2714 Ridge rd Bkly 9093
- Owers, Katharine Coronado
4 LS-2714 Ridge rd Bkly 9093
- Owsley, Yates Pasadena
4 Com-2717 Hearst av Bkly 5770
- Owyang, Hopp San Francisco
1 LS PreM-2107 Durant av
- Oxtoby, Gurdon Corning San Anselmo
1 LS-2223 Atherton st Bkly 6680
- Paar, Edna Emma Los Angeles
(1) 3 LS-2736 Haste st Bkly 8680
- Pacheco, Juan Jose Bolivia, S. A.
21 Min-1425A Steiner st, S F West 1455
- Pacheco, Olivera Oakland
1 LS-1994 Webster st, O Lksd 4676
- Packard, Paul Stark Bakersfield
3 LS and 1 Juris-2425 LeConte av Bkly 4334
- *Packer, Donald Hardy Glendale
4 Com-2425 LeConte av Bkly 4334
- Packer, Ella Colusa
4 LS-2512 Benvenue av Bkly 8660
- Paden, William Guy San Diego
4 LS-1450 Fernside blvd, A Als 333J
- Padua, Aristonico Rueda Manila, P. I.
21 Mcc-140 Turk st, S F Frkn 7192
- Page, Nancy Oakland
1 LS-470 Staten av, O Oakd 6425
- Page, Warren Elmer Greenfield
21 LS-1715 Bushnell pl Bkly 7241W
- Paget, Alfred Santa Cruz
2 Com-1726 Euclid av Bkly 6706
- Paget, Frederick Hilton Montreal, Canada
2(1) 4 CE-1257 Nineteenth av, S F Snt 1305
- Paine, Leila Evelyn Berkeley
3 LS-2561 Harte st Bkly 4758
- Paine, Ralph Kline Berkeley
2 CE-2532 Hillegass av Bkly 561J
- Paiva, Mary Florean Fresno
4 LS-2240 Atherton st Bkly 4647C
- Palaypay, Sixto C. Berkeley
3 LS-2808 Claremont blvd
- Paley, John Marcel Seattle, Wn.
2(1) 2 Mcc-Madison Park apta, O Snt 3160
- Palma, Andres Sacramento
21 Min-1822 University av Bkly 1283
- Palmer, Charles L. San Francisco
21s LS-1159 Octavia st, S F West 6677
- Palmer, Earle Coon Pasadena
1 Agr-2308 Dwight way
- Palmer, Fern Louise Tuolumne
2 LS-2721 Channing way Bkly 808
- Palmer, Gladys Elaine Stockton
2 LS-2821 Bancroft way Bkly 1765
- Palmer, Mona Edith Vacaville
2 Com-5674 Keith av, O Pied 7250
- Palstine, Rolland Grinwell Chowchilla
3 Min-2235 Chapel st Bkly 2928W
- Pannebaker, Myra Elizabeth Cheney, Wn.
21 LS-2310 Telegraph av Bkly 5964
- Pape, Eugene William San Francisco
1 LS PreM-758 Haight st, S F Park 2574
- Papen, Bertha M. Berkeley
2(1) 3 LS-2550 Haste st Bkly 945W
- Parent, Regina Flora Berkeley
1 LS-2241 Blake st Bkly 6610
- Park, Harold Lester Berkeley
21 Min-1256 Euclid av Bkly 8068W
- Park, Josephine Effa Berkeley
4 LS-3115 Claremont av Bkly 3406
- Park, Mary Eva Berkeley
3 LS-3115 Claremont av Bkly 3406
- Parker, Albert Los Angeles
2 LS PreL-1815 Highland pl Bkly 1682
- Parker, Alfred Eustace Pomona
1 LS-2181 Carleton st Bkly 5737W
- Parker, Chester Santa Barbara
2 LS-2420 Ridge rd Bkly 223
- Parker, Clinton Francis Mountain View
21 LS-2425 LeConte av

- Parker, Gertrude Lulu Oakland
4 LS-1719 Forty-first av, O Frvl 1026J
- Parker, Jack Cando, N. Dak.
1 LS-2618 Hillegass av Bkly 3544
- Parker, James Thomas Oakland
1s LS-PreM-678 Fourteenth st, O Oakd 562
- Parker, Lina Genevieve Hollywood
1 LS-2620 Benvenue av
- Parker, Lyell H. Berkeley
2 Mec-2901 Wheeler st Bkly 5160W
- Parker, Marryat Fletcher Oakland
12 LS-4032 Huntington av, O Frvl 2089W
- Parker, Miriam Berkeley
3 Chem-2901 Wheeler st Bkly 5160W
- Parker, Ralph Lockeford
3 Agr-2401 Durant av Bkly 6504
- Parkhurst, Angie Helen San Mateo
21 LS-2633 Etna st Bkly 4066
- Parkinson, Loretta Munro Berkeley
22 LS-1410 Bonita av Bkly 4015
- Parlier, Chester Herbert Reedley
11 Mec-2739 Dwight way Bkly 5392J
- Parma, Edward Benjamin Santa Barbara
1 Com-2500 Durant av Bkly 9082W
- Parmenter, Robert Cornelius Lima, Ohio
1 Com-1006 Shattuck av Bkly 671
- Parmenter, Ruth Helen Ventura
2 LS-2617 Haate st Bkly 2965J
- Parr, Sterling Clark Long Beach
4 LS-Treehaven apts
- Parra, Manuel Blas Richmond
1 CE-2224 MacDonald av, R Rchd 882
- Parrish, Alan Roy Berkeley
3 LS-2601 Durant av Bkly 23
- Parry, Edgar Earl Berkeley
23 LS-2112 Grove st Bkly 8654W
- Parry, Milman Oakland
1 LS-PreL-283 Twenty-sixth st, O Lkad 1539
- *Parslow, Charles Edward Santa Ana
4 LS-2634 Bancroft way Bkly 1276
- Parsons, Aileen Bernice Oakland
1 Chem-741 E Fourteenth st, O Mer 1250
- Parsons, Charles Wythe San Jose
2 LS-PreM-2432 College av Bkly 1044W
- Parsons, Harriet Trumbull Berkeley
1 LS-2732 Durant av Bkly 1071
- Parsons, Louise McPherson Hollywood
2 LS-2542 Durant av Bkly 1638
- Partridge, Charles Winfield Berkeley
23 LS-PreL-1726 Euclid av Bkly 6706
- Partridge, Herbert George Palo Alto
24 LS and 1 Juris-2318 Telegraph av Bkly 5964
- Partridge, Roudi Henri Santa Monica
3 LS-PreM-2235 Durant av Bkly 7929
- Pascoe, Hubert Leonard Berkeley
4 Min-2401 Durant av Bkly 6504
- *Pash, Madeline Florence Saratoga
4 LS-2721 Channing way Bkly 808
- Pasmore, Edith Edwina San Francisco
4 LS-Treehaven apts Bkly 8841W
- Pasmore, John Lane San Francisco
21 LS-PreM-2120 Kittredge st Bkly 2090
- Pastorino, John Louis Redding
2 LS-PreL-2420 Channing way Bkly 7404W
- Patch, Clifford George San Francisco
1 Mec-2316 Bowditch st Bkly 1416
- Pate, Waldo Hays Paso Robles
21 LS-PreM-2327 Bancroft way Bkly 1061W
- Paterson, Mabel C. Walnut Creek
3 LS-Walnut Creek WC 51
- Patrick, George Albert Oakland
1 LS-PreL-441 Thirty-eighth st, O Pied 3620W
- Patrick, Margaret San Francisco
2 LS-2725 Channing way Bkly 7950
- Patrick, Ruth Elizabeth Oakland
2 LS-2201 Harrison st, O Lkad 1056
- Patriquin, Jean Adella Paso Robles
1 LS-2439 Woolsey st Bkly 8079W
- Patrosso, Louis Joseph Los Angeles
2(1) 2 Chem-2400 Dana st
- Pattee, Calvin Bell Berkeley
11 LS-PreM-2540 Buena Vista way Bkly 5027J
- Pattee, Lila M. Santa Cruz
4 LS-2540 Buena Vista way Bkly 5027J
- Patten, Julian Hardy Torrington, Conn.
21 LS-2380 Telegraph av Bkly 9227
- Patten, Louise Anderson Berkeley
4 LS-1609 Spruce st Bkly 4011J
- Patterson, Ednah Marguerite Piedmont
11 LS-340 San Carlos av Pied 3483W
- Patterson, Ellis Ellwood Yuba City
3 LS-PreL-2120 Kittredge st Bkly 2090
- Patterson, Harriet Anne Santa Barbara
1 LS-2714 Ridge rd Bkly 9098
- Patterson, John Duncan Fresno
12 LS-2251 College av Bkly 9107
- Patterson, Lois Thelma Yates Center, Kan.
1 LS-1139 Cornell av Bkly 8222J
- Patterson, Margaret Sacramento
3 LS-1739 Addison st
- Patterson, Myrl Le Roi Turlock
1 Com-2211 Ellsworth st Bkly 5496W
- Patterson, Nannine Waller Medford, Ore.
1s LS-Glengarry apts Bkly 7288W

- Patterson, Robert De Armond Piedmont
 12 CE-340 San Carlos av, P
- Patterson, Roland Snell Mankato, Minn.
 1 Com-2213 Bancroft way Bkly 1238W
- Patterson, Vernon K. San Bernardino
 1 LS-2518 Cedar st
- Patterson, William Seymour Piedmont
 1 Min-340 San Carlos av, P Pied 3488W
- Patton, Harry Vincent San Francisco
 1 Mec-207 Downey st, S F
- Patton, Robert Douglas San Luis Obispo
 3 Com-2421 Durant av Bkly 1503W
- Paul, Eugene Robinson Berkeley
 13 LS-2412 Piedmont av Bkly 2370
- Paul, Irven Los Angeles
 4 LS-2509 Regent st Bkly 3606J
- Paul, Leo Clyde Bakersfield
 1s Com-2228 Dana st Bkly 1053
- *Paul, Leslie Alameda
 4 LS-1602 San Antonio av, A Ala 1950
- Paul, Max Julius Colton
 4 CE-2424 Channing way Bkly 734W
- Paul, Laura Madeline Berkeley
 8 LS PreL-1600 Euclid av Bkly 5841J
- Paulsen, Olga Camille Oakland
 2 LS-2415 Twenty-first av, O
- Pauly, Katherine E. Bakersfield
 1 LS-2508 Ridge rd Bkly 4499W
- Pawson, Herbert Bonner San Francisco
 4 Chem-3033 Benvenue av Bkly 7149
- Paxton, Harry Eugene Los Angeles
 2 Agr-2701 Hearst av Bkly 2421
- Payne, Alfred Bennett Salt Lake City, Utah
 1 LS-2521 College av
- Payne, Betsy Barbara San Francisco
 1 LS-2725 Channing way Bkly 7950
- Payne, Dorothy Salt Lake City, Utah
 (1) 2 LS-2630 College av Bkly 7059J
- Payne, John Sabin San Francisco
 1 LS-1915 Washington st, S F
- Payton, Harold Bruce Riverside
 2 LS-2426 Virginia st Bkly 564
- Peabody, Dorothy Hunt San Francisco
 2 LS-1731 Lyon st, S F West 7710
- Peacock, Berenice Grace Monterey
 1 LS PreM-1731 Milvia st Bkly 5731J
- Peacock, Dorothy Xavier Berkeley
 1 LS-3201 Claremont av Bkly 4146
- Peacock, Harrison Ross Bakersfield
 1 Agr-2200 Piedmont av Bkly 6681
- Peacock, Lillian Frances Monterey
 1 LS-1731 Milvia st Bkly 5731J
- Peacock, Wayne J. Bakersfield
 3 LS PreL-2200 Piedmont av Bkly 6601
- Peake, Frances Terese Virginia, Minn.
 1 LS-2421 LeConte av Bkly 3062
- Pearce, Donald Abbe San Juan Bautista
 2 LS PreL-2600 Bancroft way Bkly 1901W
- Pearce, F. Owen Berkeley
 4 LS PreA-2531 Channing way Bkly 7068W
- Pearson, Donald M. Oakland
 13 Chem-Bellevue and Ellita sts, O Lkcd 4119
- Pearson, Lu Emily Hess Oakland
 3 LS-2445 Derby st Bkly 882J
- Pearson, Trieste Salt Lake City, Utah
 2 LS-2400 Piedmont av Bkly 5224
- Pease, Mary Aida San Diego
 1s LS PreA-2629 Haste st Bkly 3287
- Peck, Keith Norton Riverside
 1 Agr-2309 Fulton st
- Peck, William Cecil Portland, Ore.
 1 Mec-921 Thirty-third st, O Pied 6770J
- Peckham, Eugene Carrère San Francisco
 1 LS PreL-655 Clayton st, S F Park 3025
- Pedersen, Bernard George San Francisco
 1 Com-1230 Eighteenth av, S F Snt 811
- Pedersen, Hannah Anna Salinas
 3 Com-1762 Bushnell pl
- Pedley, Louis Logan Pasadena
 4 Com-2336 College av Bkly 2431
- Pedreira, Isaac Anthony Merced
 2 Com-2228 Dana st Bkly 1053
- Peeke, Carroll Earl Oakland
 2 LS PreL-250 Grand av, O Lkcd 2111
- Peekema, Ida Dora Sacramento
 (1) 2 LS-2220 Union st Bkly 9469W
- Peffer, Robert Ellwood Los Angeles
 1 Chem-2422 Channing way Bkly 4666
- Peini, Evelina Mary Requa
 3 Agr-2520 Virginia st Bkly 7247
- Peiser, Bernice Fay San Francisco
 1 LS-442 Eighteenth av, S F Bayview 969
- Pelican, Alice Bernadette Chicago, Ill.
 1s LS-2080 Addison st
- Pelkan, Karl Francis San Francisco
 2 Med-814 Cole st, S F
- Pellissier, Leon Albert Whittier
 3 Agr-2625 Hearst av Bkly 9535
- Pelton, Ross Dickerman San Francisco
 2 LS PreL-2528 Ridge rd Bkly 3500
- Pemberton, James Emmons, Jr. Berkeley
 3 Agr-2229 McKinley av Bkly 1103J
- Pemberton, William Francis Lincoln
 1 Mec-1419 Walnut st Bkly 4261J
- Pence, Fletcher Hancock Oakland
 2 LS PreL-4389 Howe st, O
- Pence, Harold Titus Santa Cruz
 1 Agr-2340 Grove st Bkly 391J
- Pence, Musa Evans Oakland
 13 LS-4339 Howe st, O
- Penfield, Douglas Lathrope Coalinga
 1 LS PreM-2420 Channing way Bkly 7404W

- Penn, Leonidas Pullman, Wn.
4 LS-2617½ Ellsworth st Bkly 9591J
- Pennell, Harry Ransom Portland, Ore.
2 Mec-2628 Durant av Bkly 4772
- Penniman, Ellen Griscom Berkeley
2 LS-931 Mendocino rd Bkly 5801
- Pennington, Vera Victoria San Francisco
2 LS-2739 Bancroft way Bkly 204
- Pennoch, Samuel Ralph Pasadena
1 Agr-2524 LeConte av Bkly 2531
- Pennoyer, June Laura Marionville, Mo.
1 LS-2444 Carlton st Bkly 7986W
- Pentecost, Hazel E. Santa Ana
2 LS-2627 Hearst av Bkly 4009
- Pentland Edwin Hayes Los Angeles
(1) 2 Chem-2618A College av Bkly 9275J
- Peoples, Doris Kerman
4 LS and 1 Juris-2410B Bancroft way Bkly 2479
- Perine, Helen Berkeley
2 LS-2218 Dana st Bkly 3267
- Perkins, Anna Ward Boston, Mass.
(1) 3 LS-2253 Piedmont av Bkly 5542J
- Perkins, Felicia San Jose
1s LS-4324 View st, O Pied 8055J
- Perkins, Harold Douglas Berkeley
1 Mec-2549 Ellsworth st Bkly 6911J
- Perkins, Helen San Francisco
1 LS-2710 Channing way Bkly 9520
- Perkins, James Elliott Oakland
¼ Com-2617 Durant av Bkly 822
- Perks, Lawrence Nichols Haywards
¼ LS PreM-2223 Atherton st Bkly 6680
- Perow, Velma Jeannette Modesto
1 LS-2529 Dwight way Bkly 4474W
- Perrott, Margaret Woodbridge
1 LS-2519 Hilllegass av Bkly 477
- Perry, Charles Warren Coalinga
1 Mec-2327 Valley st Bkly 8751J
- Perry, Eleanor Louise Berkeley
1 LS-2425 Virginia st Bkly 4782W
- Perry, Marjorie Anona San Francisco
2 LS-2416 College av Bkly 8476J
- Perry, Richard Davidson El Centro
4 Com-2426 Virginia st Bkly 564
- Perry, Thelma Fay Los Angeles
(1) 2 LS-2150 Center st Bkly 2268W
- Perry, Vincent Denis Berkeley
2 Min-2425 Virginia st Bkly 4782W
- *Persons, Martha Briggs Berkeley
4 LS-1726 Walnut st Bkly 5483
- Persson, Carroll Albert Denair
1 Agr-2228 Dana st Bkly 1053
- Persson, Inez Mitze San Francisco
¼ LS PreL-2627 Hearst av
- Peteler, Charles Robert Pasadena
4 Agr-2424 Virginia st Bkly 5249W
- Peterman, Fred Carl National City
1 Agr-2547 Channing way
- Peters, Janet Buchanan Portland, Ore.
1 LS-Peralta apts, O Oakd 9188
- Petersen, Dorothea Marie Solvang
2 LS-2526 Hilgard av Bkly 1441
- Petersen, Harry Friederich Berkeley
¼ Mec-1943 Russell st Bkly 3490W
- Petersen, Jens Lund Fresno
2 Com-2646 Dwight way Bkly 4104
- Petersen, Meta Theodora Berkeley
2 LS-2415 Roosevelt av Bkly 3249W
- Peterson, Brewer Albert Eureka
¼s LS PreM-2333 College av Bkly 1722
- Peterson, Clara Cecelia San Francisco
3 LS-421 Castro st, S F Park 4345
- Peterson, Clara Emelia Fresno
(1) 3 LS-2119 Addison st Bkly 5367W
- Peterson, Clarence Leonard Spokane, Wn.
¼ Mec-1547 Shattuck av Bkly 1952J
- Peterson, Edwin Ernest Berkeley
¼ Mec-2362 Woolsey st Bkly 8240J
- Peterson, Ejnar Carl Kingsburg
¼ LS-2500 College av
- Peterson Ernest O Dinuba
¼ Agr-2500 College av Bkly 5942
- Peterson, Gladys Blanche San Francisco
1 LS-595 Eighteenth av, S F Bay View 1498
- Peterson, John Raymond Berkeley
¼ LS-1730 La Loma av Bkly 8716
- Peterson, Lloyd Reinhold San Francisco
2 LS PreL-1111 Vermont st, S F Men 2712
- Peterson, Marcus O Suisun
4 Min-2345 College av Bkly 62
- Peterson, Marian Powell Los Angeles
4 LS-2400 Piedmont av Bkly 5224
- Peterson, Ruth Turlock
4 LS-2336 Grove st Bkly 8299J
- Peterson, Taylor F. Oakland
¼ LS PreL-5566 Lawton av, O Pied 1882
- Peterson, Thelma Elizabeth San Francisco
¼ LS-400 Octavia st, S F
- Peterson, Walter Turlock
¼ Chem-2227 Carlton st
- Petit, Jessie Frances Oxnard
¼ LS-2519 Ridge rd Bkly 7614
- Petree, Louis Ernest San Jose
2 LS-2806 Dwight way Bkly 139
- Petterson, Ethel Christine San Francisco
¼ LS-60A Sanchez st, S F Park 6982

Petterson, Harold Dewey	Kingsburg	Phillipps, Francis Eberhard	Long Beach
¹ (1) 2 LS-Oxford apts		1 LS-2425 LeConte av	Bkly 4334
Petterson, Ivar Stanley	Kingsburg	Phillips, Ernest Jeame	Pasadena
²⁴ 4 LS-2528 Ridge rd	Bkly 3500	4 Agr-University Farm, Davis	
Petteys, Banna Alma	Chico	Phillips, George A.	Oklahoma, Okla.
3s LS PreL-2428 Haste st	Bkly 5587W	² 2 Agr-1600 Walnut st	
Pettit, Mildred Marie	Los Angeles	Phillips, Harriet Elizabeth	Berkeley
2 LS-2117 Center st	Bkly 7996	¹³ 18-2544 Haste st	Bkly 7693J
*Pettit, Muriel M. S.	Santa Rosa	Phillips, Hilda Lucille	Watsonville
4 LS-2521 Piedmont av	Bkly 8725W	2 LS-3038 Hillegass av	Bkly 1677J
Peugh, Wilbur David	Manteca	Phillips, Leonore Selma	Denver, Colo.
¹ 1 LS PreA-331 E Fourteenth st, O		1 LS-2627 Hearst av	Bkly 4009
Pexton, Sidney Vernon	Evanston, Wyo.	Phillips, Lillian Mildred	San Francisco
1 Com-1911 Bancroft way	Bkly 1753W	1 LS-2700 Channing way	Bkly 5876
Peysar, Henrietta Ruth	Berkeley	Phillips, Marian	Los Angeles
1 LS-2494 Shattuck av	Bkly 4522	¹ 1 LS-2418 College av	Bkly 4440
Peysar, Jefferson Edwin	San Francisco	Phillips, Marion Blanche	Glendale
3 LS and 1 Juris-2214 Dana st		(1) 3 LS-2241 Rose st	Bkly 1433W
	Bkly 1160	Phillips, Mary Gertrude	Fairfield
Peyser, Ruth Elizabeth	San Francisco	1 LS-Cor. Alameda and Escondido av	
8 LS-2420 College av	Bkly 906J		Bkly 4599
Peyton, Eleanor Louise	Spokane, Wn.	Phillips, Mary Josephine	Artell, Kana.
(1) 3 LS PreM-2721 Haste st	Bkly 8800	(1) 3 LS-2421 LeConte av	Bkly 8062
Peyton, Kirby Lionel	Glendora	Phillipps, Robert Dunn	Pasadena
(1) 2 Com-2828 College av		²¹ CE-2305 Bancroft way	Bkly 7461
Pfeiffer, Marjorie Gladys	Siox Falls, S. D.	Phillips, Ruth Adelaide	Los Angeles
²¹ 1 LS-Fink apts		1 LS-2515 LeConte av	Bkly 7614
Pfeiffer, Paul Henry	Pomona	Piccirillo, Louis Mathew	San Francisco
(1) 2 LS-1054 Mariposa av	Bkly 8214W	4 LS and 1 Juris-2908 Piedmont av	
Pfister, Leonore	Berkeley		Bkly 9017J
2 LS-2114 Woolsey st	Bkly 4806	Pickard, Edith Alta	Longmont, Colo.
Pfister, Louise Emma	Orange Cove	(1) 4 LS-2632 Durant av	Bkly 5137W
4 LS-2519 Ridge rd	Bkly 7614	Pieper, Walter Nielsen	Fresno
Pfizer, Evelyn Teresa	Newman	¹³ CE-2634 Fulton st	
²¹ 1 LS-2612 Russell st	Bkly 2569J	Pierce, Charles Wilder	New York, N. Y.
Pfizer, Irma Clara	Berkeley	1 Min-2001 Allston way	Bkly 6710
4 LS-2612 Russell st	Bkly 2569J	Pierce, Eugene Montgomery	San Francisco
Pfueger, Otto Henry	San Francisco	1 LS PreA-2600 Bancroft way	Bkly 1901
²¹ 1 LS PreM-1015 Guerrero st, S F		Pierce, Harold Ladd	San Francisco
	Man 1548	4 Mec-2316 Bowditch st	Bkly 1416
Pfuger, Emma Sofia	Oakland	Pierce, Jesse Jennings	Long Beach
4 LS-915 Linden st, O	Oakd 3355	1 Agr-2425 Hilgard av	Bkly 522W
Phelan, Roy Neal	Fresno	Pierce, Thomas Moore	Berkeley
2 Mec-2332 College av	Bkly 1134	²³ LS-2415 Haste st	Bkly 244W
Phennig, Dave Walter	Los Angeles	Piers, Juanita Alta	San Francisco
1 LS PreL-477 Hudson st, O		1 LS-2228 Chapel st	Bkly 4558
	Pied 6039W	Pierson, Alvin	Turlock
*Philbrook, Jacob Brayton	Santa Cruz	2 LS PreL-2228 Dana st	Bkly 1053
4 Min-2330 Telegraph av	Bkly 9227	*Pierson, Celia D.	San Pedro
Philbrook, Shelley Heselden	Santa Cruz	4 LS-Berkeley Inn	Bkly 6370
²¹ 1 LS-2330 Telegraph av	Bkly 9227	Pierson, Joseph Townley	La Verne
Phillip, Edison Leonard	Yettum	1 Com-2415 Bowditch st	Bkly 8650J
1 Mec-2214 Union st	Bkly 2483	Pierson, Raymond Henry	Chicago, Ill.
Phillips, Inez Lucile	San Francisco	² (1) 3 Chem-1914 Rose st	
(1) 2 LS-2415 Durant av	Bkly 7429	Pillsbury, Grace Sylvia	Oakland
Philleo, Edward West	Oakland	1 LS-6440 Benvenue av, P	Pied 479W
2 Mec-2422 Peralta av, O	Fvrl 1602J	Pilpel, Ruth Helen	New York, N. Y.
Philleo, Milton Harold	Covina	2 LS PreM-1624 Scenic av	Bkly 4217
1 Com-2214 Bancroft way	Bkly 1431W	Pine, Carol Sardis	Berkeley
		1s LS-1035 Euclid av	Bkly 6443

- Pink, Samuel John Eureka
 1 LS PreM-2222 Bancroft way
 Pinkerton, Joyce Mary Reedley
 1 LS-2531 Channing way Bkly 7068W
 Pinkerton, Ruth San Francisco
 3 LS-2530 Ridge rd Bkly 7084
 Pinnell, Edith Alma Fresno
 2 LS-2800 Hillegass av Bkly 3515
 Pioda, Paul Lawrence Salinas
 3 Com-2521 Hearst av Bkly 708
 Piper, Wilhelmina Motoye Los Angeles
 1 LS-1827 Delaware av Bkly 4364
 Pitts, Effie Rea Hopland
 1 LS-1762 Bushnell pl Bkly 8508J
 Place, Howard Elsbree Los Banos
 1 LS-2978 Clay st, S F Flmr 2738
 Plass, Raymond Benedict Sacramento
 2 Mec-2235 Blake st Bkly 8962J
 Plath, Lillian Clara Fargo, N. Dak.
 (1) 2 LS-4021 Greenwood av, O
 Platt, Isabel Louise Oakland
 1 LS-2824 Mitchell st, O Frvl 457W
 Platt, Marjorie Marion Denver, Colo.
 1 LS-2627 Hearst av Bkly 4009
 Platt, Ruth Elizabeth Denver, Colo.
 1 LS-2627 Hearst av Bkly 4009
 Pless, Marie Carrie San Francisco
 1 LS-65 Pearl st, S F
 Plumb, Helen Maurine Salt Lake City, Utah
 2 LS-2416 College av Bkly 8476J
 Plummer, Harold Hathaway Berkeley
 3 Mec-2636 Etna st Bkly 7455
 Plummer, Norman Herbert Alameda
 2 LS PreM-2701 Hearst av Bkly 2421
 Plunkett, Walter Cohick Oakland
 1 LS PreL-419 Elwood av, O Lksd 8432
 Poage, Edward Albert Richmond
 1 Mec-143 Fifteenth st, R Rchd 469W
 Poage, Hazel Laughlin Princeton
 2 LS-2400 Bancroft way Bkly 6488J
 Podjarsky, Jacob San Francisco
 2 Com-928 Pierce st, S F Flmr 1287
 Podstata, Harvey Livermore
 1s LS PreM-1907 Haste st
 Pohlman, Ethel May Porterville
 1 Com-2749 Dwight way Bkly 6444
 Poindexter, Ruth Wadsworth Boise, Idaho
 1 LS-2626 Benvenue av Bkly 2908
 Polak, Anna Louise San Jose
 (1) 4 LS-2245 Grove st Bkly 4788J
 Polette, Richard M. San Francisco
 1 LS PreL-2401 Durant av Bkly 6504
 Polkinghorn, Frank Allan Riverside
 2 Mec-2605 Durant av Bkly 6981
 Polkinghorn, John Walter Los Angeles
 1s Com-2521 Channing way Bkly 9306
 Pollack, Augustus Tacoma, Wn.
 12 Min-2418 Dana st Bkly 3814W
 Pollard, Clarence Arthur Tustin
 3 Mec-2500 College av Bkly 5942
- Pollard, Marian Berkeley
 2 LS-3075 Bateman st Bkly 7122W
 Pollard, Sarah Elizabeth Kansas City, Mo.
 (1) 3 LS-2429 Channing way Bkly 4686
 Polley, Mauda Margaret Chehalis, Wn.
 2 LS-2418 College av Bkly 4440
 Polsdorfer, James Ricker Los Angeles
 2 LS-2601 Channing way Bkly 5904
 Polse, Max L. Redding
 2 LS PreM-2137 Berkeley way Bkly 112W
 Polson, Thomas Clyde Berkeley
 1 Mec-2117 Cedar st Bkly 7907W
 Pomeroy, Kathryn Hollywood
 2 LS-1715 LeRoy av Bkly 2351
 Pon, Samuel Kim San Francisco
 2 Mec-1023 Stockton st, S F China 1060
 Ponsi, Karl William Berkeley
 2 Mec-2519 Durant av Bkly 8543
 Ponting, Arthur Elliott Berkeley
 8 LS-2535 College av Bkly 4919
 Pool, Ruth Aldine Visalia
 2 LS-2636 Channing way Bkly 7675W
 Poole, Edward Graham Petaluma
 4 LS and 1 Juris-2113 1/2 Delaware st
 Poole, Herbert Edward San Bernardino
 1 LS PreL-2416 Durant av
 Poole, Marjorie Lucile San Bernardino
 2 LS-1126 Delaware st
 Poole, Waldo Emerson Whittier
 1 Mec-1608A Shattuck av Los Angeles
 Poole, Winnette Couch
 1s LS-1608A Shattuck av
 Pooler, Esther Laura Benicia
 4 LS-2526 Hilgard av Bkly 1441
 Poore, Franklin Curtiss Santa Barbara
 1 Com-2400 Haste st
 Pope, C. Alfred San Francisco
 1 Agr-3333 Twenty-sixth st, S F
 Man 665
 Pope, Frances Elizabeth Miles City, Mont.
 1 LS-2632 Haste st Bkly 8287
 Pope, Margaret Madeline
 2 LS-1626 Castro st, O Lksd 3102
 Pope, Marjorie Delia Merrill, Ore.
 4 LS-2226 Chapel st Bkly 879
 Popov, Dmitry Los Angeles
 4 Agr-2224 Chapel st
 Porch, Ida Robb Carr Berkeley
 4 LS-2333 Channing way Bkly 8321
 Porter, Frances Alice Santa Clara
 4 LS-2421 LeConte av Bkly 3062
 Porter, James Westcott Berkeley
 3 OE-2713 Haste st Bkly 756J
 Porter, Mary Frances Berkeley
 3 LS-2901 Dwight way Bkly 334
 Porter, Nadine Mary Berkeley
 1 LS-2606 Bancroft way Bkly 2617
 Porter, Robert Rogers Fresno
 2 Com-2536 Bancroft way Bkly 7997

Porter, Ruth Rachel	Hickman	Powers, Florence Margaret, Marshfield, Ore.	
1s LS-2314 Hilgard av		4 LS-2315 Dwight way	Bkly 4026
Porter, William Thomas	Pasadena	Powers, Josephine	Bishop
1 LS PreM-2701 Hearst av	Bkly 2421	1 LS-2141 Los Angeles av	Bkly 4181W
Porter, Willie Ambrose	Dixon	Posil, Nathan Theodore	El Paso, Tex.
1 Agr-2223 Union st		1 CE-1809 Euclid av	
Posin, Jack Abraham	San Francisco	Prael, Robert Otto	San Francisco
1 Mec-2419 Durant av	Bkly 9149	2 Mec-2610 Durant av	Bkly 7804
Posa, Lawson Victor	Berkeley	Prager, Ruth Estell	San Francisco
3 Com-2929 Russell st	Bkly 5812	2 LS-Treehaven apts	Bkly 8841W
Post, Dorothy Ann	Stockton	Prather, Kathryn Doris	Los Angeles
1 LS-2624 Virginia st	Bkly 3663	2(1) 2 LS-2627 Hearst av	Bkly 3229
Potasz, Thomas Marcellus	San Francisco	Prather, Mildred Elizabeth	Los Angeles
1 LS PreM-318 Moultrie st, S F		(1) 3 LS-2429 Channing way	Bkly 4648
Potbury, Louise Philbrick	Berkeley	Pratt, Alice	Piedmont
2s LS-1530 La Loma av	Bkly 4981W	2 LS-44 Sierra av, P	Pied 4223
Potter, Alice	Oakland	Pratt, Dorothy Evalyn	Berkeley
4 LS-3508 Richmond av, O	Pied 6409J	1 LS-1530 Euclid av	Bkly 5085J
Potter, Doris Gilbert	Riverside	Pratt, Geraldine	La Jolla
3 LS-2624 Virginia st	Bkly 3663	4 LS-Treehaven apts	Bkly 8841W
Potter, Dorothy Helen	Oakland	Pratt Harry Ballard	Denair
1 LS-504 Crofton av, O	Oakd 8768	1 LS-1734 Walnut st	
Potter, Effie Elizabeth	Oakland	Pratt, Susan Adelaide	Honolulu, T. H.
1 LS-1611 Castro st, O	Oakd 1260	18 LS-2933 Magnolia st	Bkly 1827J
Potter, Hazel Gertrude	Covina	Pray, Ralph Edgar	Valley City, N. Dak.
(1) 3 LS-2627 Hearst av	Bkly 3229	(1) 4 LS-2119 Addison st	Bkly 7164J
Potter, Howard Eugene	Sacramento	Preiss, Harry, Jr.	Berkeley
(1) 4 LS-2109 Shattuck av	Bkly 9310	1 LS PreL-2338 Carlton st	Bkly 9175J
Potter, Stewart Campbell	Shellville	Preiss, Marie Monette	Berkeley
1 LS PreL-5511 Thomas st, O	Pied 7013J	1 LS-2338 Carlton st	Bkly 9175J
Potwin, Mable Grace	Oakland	Prentiss, Bertha Cordelia	Berkeley
1 Com-5775 Shafter av, O	Pied 3247	1 LS-2500 Durant av	Bkly 2500
Poulsen, Harold Willard	Selma	Prescott, Katherine	Boston, Mass.
4 Agr-University Farm, Davis		1 LS-2418 College av	Bkly 4440
Poulsen, Siverdt M.	Fresno	Prescott, Thomas William	Soquel
3 Agr-2059 University av	Bkly 7518	2 LS-2501 Ridge rd	Bkly 1335
Powell, Hal Walverton	Highland	Presler, Olive Lorena	Anamoose, N. Dak.
1 Agr-2222 Bancroft way		2 LS-2601 Benvenue av	Bkly 6304J
Powell, Marietta Beatrice E.	Nevada City	Pressley, Jackson Hard	Berkeley
1 LS-2304 Telegraph av	Bkly 3428	4 Mec-1003 Mariposa av	Bkly 6057W
Powell, Mildred Julia	Alameda	Pressley, Legro	Santa Rosa
1 LS-1027 Taylor av, A		3 Agr-2701 Hearst av	Bkly 2421
Powell, Olive Francisco	Auburn	Prestage, Martha L.	Porterville
1 LS-2315 Dwight way	Bkly 4026	12 Com-209 Cole st, S F	
Powell, Reeta Alvira	Kingsbury	Preston, Dorothy	Berkeley
2 Com-2525 Dwight way	Bkly 7693W	12 LS-1734 Oxford st	
Power, Jessie Hazel	Los Angeles	Prewett, Rader Lemon	Oakland
4 LS-2417 LeConte av	Bkly 5650	1 LS PreL-337 Twelfth av, S F	
Powers, Albert Henry, Jr. Marshfield, Ore.		*Price, Chalmers G.	Santa Cruz
2 Agr-2601 Channing way	Bkly 5904	4 LS-1418 Scenic av	Bkly 7325J
Powers, Alexander David, Jr.	Oakland	Price, Eleanor Levering	Mesa, Ariz.
2 Com-3032 Blossom st, O	Frvl 286W	2 LS-2542 Durant av	Bkly 1864
Powers, Doris Margaret	Oroville	Price, Leslie	Healdsburg
(1) 3 LS-1501 Arch st	Bkly 3347	2 LS PreL-645 Fifty-second st, O	Pied 6915W

- Price, Lloyd D. Scappoose, Ore.
 *1 CE-2538 Durant av Bkly 8861W
- Price, Louis Brunet Sonora
 1 Agr-2600 Durant av Bkly 1781W
- Price, Paul W. El Paso, Tex.
 4 Chem-2647 Dwight way Bkly 5831
- Prichard, Benjamin Leonard Oakland
 1 LS-2319 McGee av
- Prichard, Helen Millie Berkeley
 *1 LS-2319 McGee av
- Priddle, Margaret Anne San Francisco
 3 LS-1953 Page st, S F Mrkt 8994
- Prideaux, Olivette Edna Oakland
 4 LS-925 E Nineteenth st, O Mer 4974
- Pries, Lionel H. Oakland
 4 LS PreA-2616 Virginia st Bkly 6716
- Prieto, Albert G. Philadelphia, Pa.
 *2 Agr-2214 Dana st Bkly 1160
- Prince, Eloise Mary Healdsburg
 2 LS-2241 Durant av Bkly 1627W
- Prince, John Rogers, Jr. Tuolumne
 *1 LS-2625 Hearst av Bkly 5965
- Prindiville, Mervyn Thomas Watsonville
 3 Com-2717 Hearst av Bkly 5770
- Prior, Roger Wellington Los Angeles
 1 Com-2228 Dana st Bkly 1058
- Probert, Aylwin Berkeley
 *1 Min-28 Oakvale av Bkly 8981
- Proctor, Bernhard Anton Piedmont
 1 Com-43 Estrella av, P Pied 2558
- Proctor, Dorothy Bradstreet Franklin, N. H.
 (1) 2 LS-2423 Hilgard av Bkly 1700W
- Proctor, E. June Laton
 2 LS-2417 Bancroft way Bkly 1445
- Proppe, Eleanor Jurs San Francisco
 1 Com-2721 Haste st Bkly 8800
- Prosser, Evelyn Mildred Oakland
 1 LS-2435 East Twenty-third st, O Frvl 1847J
- Prosser, Henry Julian Berkeley
 1 CE-2806 Regent st
- Prosser, Malcolm Schofield Antioch
 1 LS-1424 Polk st, S F Frkn 2257
- Prout, Wilfred James San Francisco
 1 Com-2020 Turk st, S F Flmr 812
- Provia, Helen Elizabeth Sutter Creek
 1 LS-5319 Shafter av, O
- Ptack, Frances Vivian Juneau, Alaska
 *2 LS-2248 Telegraph av Bkly 9011
- Puckett, Bertram Pierre Berkeley
 4 Com-2788 Forest av Bkly 6773W
- Puehler, Dorothy Billings, Mont.
 3 LS-2715 Stuart st Bkly 9546W
- Pugh, Vera Virginia Berkeley
 4 LS-2247 Bancroft way Bkly 3873
- Pullen, Evelyn Gifford Berkeley
 3 LS PreL-1915 Vine st Bkly 4580J
- Pulliam, James Norman Oakland
 (1) 4 Com-2345 College av Bkly 62
- Pulliam, Josephine Durango, Colo.
 *1 LS-2208 Grove st
- Purnell, Idella Los Angeles
 2 LS-2319 Haste st Bkly 8543W
- Purviance, Cynthia Golden Bellota
 *2 LS-2510 Haste st Bkly 3789W
- Putcamp, William J. Carbondale, Ill.
 *1 Mec-1218 Thirty-seventh av, Fruitvale
- Putnam Laurence Graham Los Angeles
 3 Min-2627 Ridge rd Bkly 2541
- Pymm, John Donald St. George, Utah
 (1) 3 LS-2239 Dwight way Bkly 7762J
- Pyzel, Ewald Oakland
 1 Chem-3401 Broadway, O Pied 1079
- Quackenbush, Claude Fulton San Diego
 4 Mec-2221 Union st Bkly 8247J
- Quadrio, Basilio Martino Willits
 2 LS-2070 University av
- Quail, John Lester Stockton
 4 Agr-Oxford apts Bkly 9322J
- Quail, Violet Hamilton Stockton
 1 LS-Oxford apts Bkly 9322J
- Queen, Dorothy San Francisco
 (1) 2 Com-2418 Durant av Bkly 8537J
- Quick, Ethel Genevieve Berkeley
 3 LS-1524 Scenic av Bkly 9122J
- Quick, Leslie Irving Berkeley
 3 Agr-1524 Scenic av Bkly 9122J
- Quigley, Alan Joseph Madera
 2 LS PreM-2214 Union st Bkly 2488
- Quigley, Frank Herbert Downieville
 *1 Chem-2222 Bancroft way Bkly 6475
- Quigley, Robert John Turlock
 *1 Com-2550 Haste st Bkly 945W
- Quijada, Amelia Rafaela Berkeley
 *1s LS-1406 Hawthorne ter Bkly 6116J
- Quill, Albert A. Crockett
 *4 LS PreL-1810 Virginia st
- Quimby, Ruth Marie San Francisco
 3 LS PreM-4 Eighteenth av, S F Pac 110
- Quinan, Wickham Hartzell Berkeley
 4 Mec-2911 Russell st Bkly 587
- Quinlan, Ellsworth Francis Half Moon Bay
 *2 LS PreM-2616 Virginia st Bkly 8716
- Quinlan, Mary Katharine Los Angeles
 *1(1) 2 LS-2221 Baker st, S F Papt 180
- Raab, Norman Cecil Stockton
 4 CE-2527 Ridge rd Bkly 6107
- Raber, Anna Louise San Francisco
 *1 LS-3717 Jackson st, S F Pac 5140
- Rabin, Emelia Augusta Hollywood
 3 LS-2417 LeConte av Bkly 5650
- Rabinowitz, Herbert San Francisco
 4 LS and 1 Juris-2522 Dana st Bkly 2368W
- Radcliff, Katharine Mary Watsonville
 4 LS-2714 Ridge rd Bkly 9098
- Raddatz, Glen Cassimer San Fernando
 3 Agr-2647 Dwight way Bkly 5831

- Radebaugh, Charles Edward Bakersfield
2 LS PreM-1730 La Loma av Bkly 8716
- Radgesky, Elizabeth Helen San Francisco
1 LS-2330 College av Bkly 1803
- Radgesky, Marcelle Louise San Francisco
1 LS-2330 College av Bkly 1803
- Radin, Helen San Francisco
3 LS-1624 Scenic av Bkly 4217
- Raffetto, Elwyn Creighton Placerville
2 LS-2646 Dwight way Bkly 4104
- Raffetto, Lloyd Andrew Placerville
3 Agr-2646 Dwight way Bkly 4104
- Raggio, John, Jr. Stockton
3 LS-2251 College av Bkly 9107
- Railsback, Gilbert Eugene Hanford
12 LS PreL-2610 Durant av Bkly 7804
- Railsback, Oscar Caleb Hanford
2 LS PreM-2610 Durant av Bkly 7804
- Ralston, Mabel Coldwater, Mich.
3 LS-2611 Durant av Bkly 4525W
- Ralston, Theodore W. Los Angeles
2 Agr-2309 Bowditch st Bkly 4690
- Ramage, Josephine Kathleen Berkeley
2 LS-2536 Chilton way Bkly 7741W
- Rambo, Marie Elizabeth Klamath Falls, Ore.
11 LS-2537 Virginia st
Ramelli, Catherine Adelina Ventura
1 LS PreA-2537 Virginia st Bkly 1473W
- Ramm, Aubrey Gillespie San Francisco
11 Mec-775 Post st, S F Pspt 1202
- Ranck, Mabel Alcy Gage, Oklahoma
(1) 4 LS-2420 S. Atherton st Bkly 7290J
- Randall, Edris Elizabeth Lewiston, Idaho
3 LS-2803 Forest av Bkly 1004W
- Randall, Florence Clarke Whittier
(1) 3 LS-2531 Ridge rd Bkly 2581
- Randall, Samuel Bunker San Diego
3 LS PreM-2444 Dwight way
- Randall, Winslow Haskell Berkeley
3 LS-2733 Benvenue av Bkly 7587J
- Randolph, Myrie Azusa
4 LS-1627 Carlton st
- Randolph, Wilfred Miller Gridley
12 Mec-2008 Shattuck av Bkly 5135
- Rankin, Irma Benicia
3 LS-2526 Hilgard av Bkly 1441
- Rankin, Wallace Edmunds Glen Ellen
1(1) 2 LS-2736 Russell st Bkly 6284W
- Ranley, Edna Martha Tracy
1 LS-2523 Dwight way Bkly 1027J
- Ransohoff, Howard San Francisco
14 LS-3659 Washington st, S F
- Ransome, Tallent Hutchinson Flmr 1675
2 LS-190 Grand av, O Oakland 1026
- Rantz, Jock San Francisco
13 LS-1270 Jackson st, S F
- Rapelian, Aaron Allentown, Pa.
11 LS PreM-2502 Telegraph av
- Rasmussen, Charlotte Elizabeth Milton, Ore.
3 LS-2231 Dana st Bkly 1061W
- Rasmussen, Harry David Oakland
2 LS-2528 Ridge rd Bkly 3500
- Rasmussen, Richard Haywards
13 Mec-2120 Kittredge st Bkly 2090
- Rasmussen, Sophie Engle Milton, Ore.
2 LS-2231 Dana st Bkly 1061W
- Rathbone, Augusta Payne San Francisco
4 LS-93 Parkside dr Bkly 4995J
- Rathborn, Rolfe Corne Berkeley
2 Agr-1139 Oxford st Bkly 355W
- Rathbun, Stanley Holmes Colusa
8 LS PreM-2248 Telegraph av Bkly 9011
- Rathwell, Harold Ben Los Angeles
11 Min-2635 Channing way Bkly 1895
- Raub, Anna Grace Yuba City
1 LS-2442 Hilgard av Bkly 5497J
- Rauch, Margaret Fergus Lewiston, Mont.
1 Com-2624 Virginia st Bkly 3663
- Rauch, Norma Ellen Lewiston, Mont.
13 LS-2624 Virginia st Bkly 3663
- Rausch, Josephine Veronica Stockton
1 LS-2524 LeConte av Bkly 2531
- Raven, Vernie Dos Palos
1 Agr-2411 Durant av
- Rawlins, Aubrey Gatliff Willows
3 LS PreM-2701 Hearst av Bkly 2431
- Rawlins, Thomas Elsworth Willows
2 Agr-2701 Hearst av Bkly 2431
- Ray, Clara Ance Modesto
2 LS-2529 Dwight way Bkly 4474W
- Ray, Glen William Tulare
1 LS PreL-2413 Bancroft way
- Ray, Harris A. Oakland
12 Com-2345 College av Bkly 62
- Ray, Irene Oakland
4 LS-272 Twenty-third st, O Oakd 2123
- Rayburn, Hannah Emily Los Angeles
3 LS PreL-2511 Virginia st Bkly 2094J
- Raymond, Ruth Bell Ocean Park
11 LS-2627 Hearst av
- Raymond, Stanford Stockton
3 LS PreM-2902 Channing way Bkly 5885W
- Rea, Minnie Jennings Alameda
1 LS-2033 San Jose av, A Ala 1580J
- Rea, William Carter Oakland
2 LS-1640 Euclid av Bkly 7057
- Read, Goodrich Los Angeles
1 LS-1 Canyon rd Bkly 966
- Read, Lena Margaret Middletown
1 LS-2530 Ridge rd Bkly 7084
- Read, Margaret Williams Boulder, Colo
4 LS PreA-2500 Durant av Bkly 9032J
- Ready, Alice Margaret Ventura
(1) 2 Agr-2520 Durant av Bkly 1675
- Real, Teresa Loraine Durango, Colo
2 LS-6433 Colby st, O. Pied 5851W

- Reames, William Harold San Francisco
 *2 Mec-1755 Fifth av, O
- Reasoner, Donald Turner Winters
 2 Agr-1726 Euclid av Bkly 6706
- Rector, Maryly Atwater
 *1 LS-3021 Telegraph av Bkly 6874W
- Redden, Leo Roy Fresno
 3 Min-2642 Bancroft way
- Reddy, Helen Dolores Medford, Ore.
 1 LS-2511 Virginia st Bkly 2094J
- *Redin, Felicie Catherine Paris, France
 (1) 4 LS-468 Perkins st, O Mer 2108
- Redington, Elizabeth Meacham Pullman, Wn.
 (1) 2 LS-2400 Piedmont av Bkly 5224
- Redmond, Wilfrid Elentherius San Francisco
 *2(1) 4 LS-797 Bush st, S F Dgls 4058
- Reed, Charlotte Martinez
 1 LS-1922 Oxford st
- Reed, Earl Lyle Lindsay
 1 Com-2627 Ridge rd Bkly 2541
- Reed, Ellen Van Wert, Ohio
 1 LS-Sequoia apts Bkly 7422J
- Reed, George Sedgwick Marysville
 1 Agr-2406 Dana st Bkly 7713
- Reed, George William San Bernardino
 2 CE-2219 Channing way Bkly 8668W
- Reed, Gladys Elsie Reedley
 *1 LS-2434 Channing way Bkly 5957W
- Reed, Gwendola G. Healdsburg
 *1 LS-Oxford apts
- Reed, Howard W. Martinez
 2 Com-2605 Durant av Bkly 6981
- Reed, Jay T. Reedley
 2 LS-2627 Ridge rd Bkly 2541
- Reed, Lila Los Angeles
 *1a LS-1216 Curtis st Bkly 7320J
- Reed, Marian Portland, Ore.
 *1(1) 3 LS-1004 Merced av Bkly 7675J
- Reed, Orville Sanford Van Wert, Ohio
 (1) 2 LS-38 Sequoia apts Bkly 7422J
- Reed, Rexton K. Bakersfield
 2 LS PreL-Oxford apts
- Reed, Ruth Elaine Oakland
 1 LS-4407 Brookdale av, O
- Reed, Walter Henry San Francisco
 2 Agr-361 Mississippi st, S F Man 6627
- Reedy, Katherine Elizabeth San Francisco
 4 LS-2520 Ridge rd Bkly 5845W
- Reehl, William Washington Los Angeles
 1 Com-2625 Hearst av Bkly 9535
- Rees, Donald Spurgeon Loyalton
 2 LS PreM-2415 Bowditch st Bkly 8650J
- Rees, Edward Stephen Berkeley
 *1 Mec-1705 La Loma av Bkly 2816W
- Reese, Agnes Mabel Ventura
 4 Com-2335 Warring st Bkly 6744
- Reese, Dorothy Julia Ventura
 4 Com-2335 Warring st Bkly 6744
- Reeser, John Milner Oakland
 1 LS PreL-1705 Seminary av, O Elm 745
- Reeves, Jean Gilbert Redlands
 2 LS-2531 Ellsworth st Bkly 4437J
- Regan, Catharine Berkeley
 1 LS-1020 Sierra st
- Regar, Helen Marie Turlock
 1 LS-2129 Carlton st
- Regar, Izillah Sarah Turlock
 (1) 3 LS-2129 Carlton st
- Rehorn, Helen Margaret Fresno
 *1 LS-Treehaven apts Bkly 4655W
- Reich, William Walter Manila, P. I.
 3 LS PreM-2530 Hilgard av Bkly 777J
- Reichling, William Hood Whittier
 2 Agr-2425 LeConte av Bkly 4335
- Reid, Bernice Virginia Los Angeles
 3 LS-14 Euclid apts Bkly 3678J
- Reid, Clyde Carson Reedley
 (1) 3 LS-2109 Shattuck av Bkly 9310
- Reid, Gladys Frances Oakland
 1 LS-541 Kempton av, O Pied 2415W
- Reid, Jeanette May Monrovia
 1 LS-2629 Haste st Bkly 3287
- Reid, Lewis Huling Glendale
 1 Com-2336 College av
- Reid, Louise Mills Oakland
 2 LS-2715 Channing way Bkly 6494J
- Reid, Pauline Frances Santa Ana
 1 LS-2531 Ridge rd Bkly 7066
- Reid, Sibbald Mill Valley
 1 Agr-2401 LeConte av
- Reid, Stanley Bonneau Thalheim
 *2 LS-2214 Union st Bkly 2483
- Reilly, John Henry Buhl, Idaho
 *1 Chem-2630 Channing way
- Reilly, Lottie Jane Healdsburg
 *1 LS-1739A Virginia st
- Reilly, Mary Jane Berkeley
 1 LS-2922 Regent st Bkly 8725J
- Reilly, William Anthony San Francisco
 1 LS PreM-4169 Twentieth st, S F
- Reily, Jane Sabinal, Tex.
 1 LS-Euclid apts Bkly 7674J
- Reimers, Ludvig Stockton
 2 Chem-2247 Bancroft way Bkly 3873
- Reineck, Marian Margaret Pasadena
 3 LS-2827 Piedmont av Bkly 8448W

- Reinecke, Johann Alexander
Cape Town, South Africa
- *4 Agr-University Farm, Davis
- Reinecke, Wallz H. San Francisco
*4 Com-216 Pine st, S F Krny 4071
- Roinhardt, John Clarence Los Angeles
1 LS-2634 Bancroft way Bkly 1276
- Reinhart, James Howard Hollister
2 Mec-1808 Grove st Bkly 4196
- Reinke, Albert Reinholt Long Beach
3 LS-1726 Euclid av Bkly 6706
- Reinle, Lisette Berkeley
3 LS PreM-2527 LeConte av Bkly 1765
- Reiss, Thomas Hubert Fresno
2 LS PreM-2536 Bancroft way Bkly 7997
- Reith, Ethel Louise St. Louis, Mo.
(1) 3 LS-2383 Channing way Bkly 8322
- Renius, Olga Marie Long Beach
*1s LS-2281 Shattuck av Bkly 9597W
- Rensch Joseph Romalne San Bernardino
*2 Chem-2701 Hearst ay Bkly 2421
- Renshaw, Katharine Mattingly Glendale
3 LS-2304 Telegraph av Bkly 8428
- *Renz, Carl A. Mill Valley
4 LS-2610 Durant av Bkly 7804
- Repath, Kenneth Holman Los Angeles
3 Chem-2601 Channing way Bkly 5904
- Reston, Constance Marie San Francisco
4 LS-2525 College av Bkly 9572W
- Rethers, Theodore Charles San Francisco
*2 LS PreM-2625 Hearst av Bkly 4025
- Reticker, Rolland Wilson Los Angeles
1 Com-2318 Telegraph av Bkly 5964
- Reukema, Lester Edwin Santa Cruz
2 Mec-2427 Durant av Bkly 8390J
- Reuter, Charles S. Los Angeles
*4 Com-2149 Blake st Bkly 7184J
- Reyburn, Gladys Elsie Pacific Grove
3 LS PreM-1747 Walnut st Bkly 1009W
- Reyburn, Wilma Ruth San Francisco
1 LS-907 Divisadero st, S F
- Reyland, Evelyn Lax Oakland
3 LS-617 Twenty-ninth st, O Oakd 6301
- Reynolds, Alene Margarette Oakland
4 LS-2318 Telegraph av Bkly 5964
- Reynolds, Blanchard Webb Anderson
1 Mec-2910 1/2 Wheeler st Bkly 8173W
- Reynolds, Cecil E. Colton
2 LS-2424 Channing way
- Reynolds, Harriet Hollywood
(1) 3 LS-2325 Channing way Bkly 239
- Reynolds, Homer Hemenway Hollywood
2 Com-2325 Channing way Bkly 239
- Reynolds, John Mason Oakland
1 Com-2318 Telegraph av Bkly 5964
- Reynolds, Lewis Edward Fort Benton, Mont.
3 LS-1711 Euclid av Bkly 3378
- Reynolds, Ralph Arthur Polson, Mont.
3 LS PreM-1609 Scenic av Bkly 3520J
- Reynolds, Ruth Eva Berkeley
4 LS-2163 Dwight way Bkly 4468W
- *Reynolds, T. Eric Kent, Wn.
4 LS-1711 Euclid av Bkly 2593
- Rhein, Florence Anita Oakland
3 LS-5184 Miles av, O Pied 2890
- Rhein, Violet Florence Santa Cruz
4 LS-2435 Hilgard av Bkly 6406
- Rhoades, Beattie Annise Rohnerville
*1 Com-2436 Channing way
- Rhodes, Arthur Pym San Francisco
(1) 2 Agr-1629 Euclid av Bkly 2094W
- Rhodes, Jenny Jean Pasadena
1 LS-1547 Euclid av Bkly 6681
- Rhodes, John McDonald Oakland
*1 Com-5661 Oak Grove av, O Pied 4668W
- Rhodes Katherine Berkeley
2 Com-2711 Woolsey st Bkly 7430
- Rhodes, Ruth Lillian Pasadena
3 LS-1547 Euclid av Bkly 6681
- Rice, Alfred Mercer Syracuse, N. Y.
(1) 3 LS-2001 Allston way Bkly 6710
- Rice, Arline Modesto
2 LS-2821 Bancroft way Bkly 1765
- Rice, Frances Paulene Pendleton, Ore.
4 LS-2253 Piedmont av Bkly 5542J
- Rice, Harold Edwin Oakland
*2 Com-2345 College av Bkly 62
- Rice, Joseph Perkins Santa Barbara
2 Agr-2200 Piedmont av Bkly 6601
- Rice, J. Marvin Sanger
*1s LS-2109 Shattuck av Bkly 6642
- Rice, Mary Houston Oakland
3 LS-420 Sixtieth st, O Pied 4774W
- Rice, Maurine Clovis, N. M.
3 LS-2405 Telegraph av Bkly 365
- Richards, Arthur Aaron San Jose
*1 Com-1715 Channing way Bkly 7282J
- Richards, Beatrice Marie Dixon
2 LS-2328 Bowditch st Bkly 2152W
- Richards, Celia San Jose
4 LS-476 Boulevard way, O Lkad 3702
- Richards, Edwin Hugh Pomona
3 LS PreL-2426 Virginia st Bkly 564
- Richards, Eleanor Louise Salt Lake City, Utah
1 LS-2721 Haste st Bkly 8360
- Richards, Elizabeth Titus Long Beach
3 LS-2228 Chapel st Bkly 679
- *Richards, John Almon Treadwell, Alaska
4 Min-2717 Durant av Bkly 822
- Richards, Marjorie Oakland
2 LS-95 Rose av, O Pied 3765W
- Richards, Mary Almeh Sonora
*1 LS-1840 Berryman st
- Richardson, Ardis Ontario
*3 LS-2417 LeConte av Bkly 5650
- Richardson, Davis Los Angeles
2 Agr-2330 Telegraph av Bkly 9227

- Richardson, John Everett Hollywood
1 Com-2614 Dwight way Bkly 3988
- Richardson, Lindley Chicago, Ill.
1 LS-2001 Allston way Bkly 6710
- Richardson, Modest Oreathial Berkeley
2 LS-1708 Ward st
- Richardson, Norton Harold National City
1 LS-2547 Channing way
- Richmond, Georgia Bell San Francisco
3 LS-2714 Ridge rd Bkly 9093
- *Richter, Milton Victor San Mateo
4 Agr-1552 Shattuck av
- Rideout, Eugene Wynkoop Oakland
1s Com-5379 Miles av, O Pied 8477J
- Rider, Russell Eldwood Dos Palos
2 Agr-2500 College av Bkly 5942
- Ridgley, Harriette Lucille Cheyenne, Wyo.
2 LS-788 Sixty-fifth st, O Pied 3882W
- Ridley, Ethel Virginia Los Angeles
2 LS-1715 LeRoy av Bkly 2351
- Riebe, Herman Paul San Francisco
1 LS-2215 Fulton st
- Riechers, Mabel Beth Oakland
1 LS-72 Plaza dr Bkly 8368J
- Riedel, Mamie May Santa Barbara
(1) 3 LS-2328 Bowditch st Bkly 2152W
- Rieman, Norman Norton Tacoma, Wn.
1 LS-601 South Clement st, S F
- Ries, William Cyril Ferndale
1 Com-2418 Dana st Bkly 8814W
- Rietz, Charles A. San Francisco
12s LS-4241 Twentieth st, S F Msn 4028
- Rigby, John Charles Fowler
1 Com-2709 Dwight way Bkly 736W
- Rigg, Adelaide Ellen Bloomington, Ill.
3 LS-2138 Center st Bkly 2268W
- Riggs, Rachel Los Gatos
1 LS-2530 College av Bkly 7875J
- Riggs, Raymond Alyn Clovis
2 CE-1925 Home st Bkly 2434W
- Riggs, Robert Edward Berkeley
1 LS-2128 Emerson st Bkly 4037J
- Rigor, Thomas Valdez Victoria Tarlac, P. I.
1 Agr-1822 University av Bkly 1283
- Riley, Donald Scott San Luis Obispo
2 LS-1711 Euclid av Bkly 3378
- Riley, Robert Meredith Turlock
(1) 2 Agr-2023 Delaware st Bkly 1046
- Rinehart, James Fleece Oakland
1 LS PreM-1432 Fifth av, O Mer 4389
- Rinehart, Raybourne Wycoff Oakland
4 LS and 1 Juris-1432 Fifth av, O Mer 4389
- Ring, Amy Berkeley
1 LS-2429 Channing way Bkly 4648
- Ring, Arden Garrison Ferndale
1 LS-2614 Dwight way Bkly 5988
- Ring, Oluf Andreasen Ferndale
18 CE-2717 Hearst av
- Ringle, Henrietta Hollywood
4 LS-2520 Cedar st Bkly 1444
- Ringo, Charles Randolph San Francisco
1 Com-2865 Washington st, S F Flmr 4175
- Rinset, Edna Bertha Fairfield
1 LS-2511 Dwight way Bkly 7079W
- Rippe, John Richard Fresno
1 Mec-Hotel Whitecotton Bkly 7800
- Riskin, Nathan Zanvul Oakland
1 LS-675 Wesley av, O Lkad 2306
- Ritch, Myrtle Judith Lewiston, Mont.
1 LS-2328 Bowditch st Bkly 2152W
- Ritchey, Clarita Los Angeles
(1) 2 LS-1265 Euclid av Bkly 2055J
- Riter, Samuel Waldo Logan, Utah
1 Chem-2590 Bancroft way
- Ritson, Edward Llewellyn, Jr. Berkeley
1 Mec-2907 Hillegass av Bkly 2027
- Rittersbacher, Charles Edgar Hollywood
1 Mec-2607 Hearst av Bkly 5913
- Rivera, Vicente Antonio Manila, P. I.
1 Chem-1545 Dwight way Bkly 2401
- Rivers, Nadine Rose St. Helena
4 LS-2247 Bancroft way Bkly 3873
- Rives, Fern La Vaun Salt Lake City, Utah
4 LS-2125 Hearst av Bkly 2125
- Rixford, Mary Campbell San Francisco
1 LS-2405 Prospect st Bkly 4420W
- Roach, Bessie Mary Oakland
2 LS-824 E. Twenty-third st, O Mer 1422
- Roach, Lucile Oakland
2 LS-2739 Bancroft way Bkly 204
- Roach, Maurice Herbert Oakland
2 Agr-2528 Ridge rd Bkly 3500
- Roan, Violet Vivian Pasadena
1 LS-2247 Dwight way Bkly 128
- Robb, Inez Long Beach
(1) 3 LS-2334 Bowditch st Bkly 1358W
- Robb, James Glenn Oakland
2 Com-5582 Lawton av, O Pied 5745
- Robbins, Charles Wiles Berkeley
4 Mec-2711 Regent st Bkly 3473W
- Robbins, Frances Danta Salem, Ore.
1 LS PreL-718 Lerida av, O Oakd 5574
- Robbins, Katherine Elizabeth Los Angeles
2 LS-2709 Channing way Bkly 8528
- Robbins, Willia Salt Lake City, Utah
1s LS-2525 Durant av Bkly 2168
- Roberson, Tracey Lloyd Oakland
(1) 3 LS PreM-2626 Harrison st, O Oakd 5788
- Roberts, Earl Van Dorn Vallejo
1 Com-2717 Haste st Bkly 586
- Roberts, Elizabeth Turlock
(1) 3 LS-2635 Hillegass av Bkly 2491J
- Roberts, Elizabeth Evans Berkeley
1 LS-2707 Channing way Bkly 5700

- Roberts, Helen Wilson Oakland
1 LS-654 Oakland av, O Pied 5125J
- Roberts, Jane Laura Belle Fourche, S. D.
1 Com-2520 Durant av
- Roberts, Jewel Elizabeth Suisun
1 LS-2695 Cedar st Bkly 538W
- Roberts, Sylvia Joyce San Francisco
3 LS-139 Twenty-second av, S F
- Roberson, Vivian Alberta San Francisco
4 LS-2429 Channing way Bkly 4648
- Rockwell, Isabel Glen Ridge, N. J.
4 LS-1418 LeRoy av Bkly 4157
- Rockwood, Forrest Conrad Kalispell, Mont.
2 LS PreL-2647 Dwight way Bkly 5831
- Rodenhaver, Myrtle Ellen Berkeley
3 LS-2411 Regal rd Bkly 4994W
- Rodger, Isabella Constance Los Angeles
1s LS-2815 Dwight way Bkly 4026
- Rodger, Jean Kirk Oakland
1 Com-2822 School st, O
- Rodgers, E. Frances Los Angeles
4 LS-2520 Virginia st Bkly 7247
- Rodgers, Margaret Elizabeth Anaconda, Mont.
12 LS-2710 Channing way Bkly 9520
- Rodgers, William Earl Vallejo
1 Com-2617 Durant av Bkly 822
- Rodolph, Barbara Eleanor Oakland
1 LS-1835 Twenty-eighth av, O Prvl 632
- Rodolph, Doris Oakland
1 LS-1410 Fifth av, O Mer 616
- Roe, Harold Ewart Pomona
1 LS PreM-2214 Bancroft way Bkly 1431W
- Roe, Margaret James Claremont
1 LS-2500 Durant av Bkly 9004J
- Roebert, William Fred Marwell
3 LS-2008 Shattuck av Bkly 5135
- Roeder, Eliza Oakland
2 LS-113 Mesa av, O Pied 5916
- Roeding, Marianne Elizabeth Fresno
1(1) 2 LS-2318 Telegraph av Bkly 5964
- Roesling, Cyril Francis Alameda
1 Agr-1727 Channing way Bkly 5202
- Roesling, Norbert Frederick Alameda
1 Agr-1727 Channing way Bkly 5202
- Roeth, Eunice Dagmar Piedmont
3 LS-450 Mountain av, P Pied 3025
- Rogers, Alva Carter Anaheim
1 LS PreL-2600 Bancroft way Bkly 1901
- Rogers, David White Pima, Ariz.
1(1) 3 Agr-2248 Telegraph av Bkly 9011
- Rogers, Evalyn Louise Hayward
2 LS-2214 Dana st Bkly 1160
- Rogers, Harriet Evadna Oakland
2 LS-2206 Seventy-third av, O Elm 688
- Roberts, Helen Wilson Oakland
1 LS-654 Oakland av, O Pied 5125J
- Roberts, Jane Laura Belle Fourche, S. D.
1 Com-2520 Durant av
- Roberts, Jewel Elizabeth Suisun
1 LS-2695 Cedar st Bkly 538W
- Roberts, Sylvia Joyce San Francisco
3 LS-139 Twenty-second av, S F
- Robertson, Charles Albert Oakland
4 Mec-3874 Shafter av, O Pied 3628J
- Robertson, Charles Atlee Broken Bow, Neb.
1s Com-2248 Telegraph av Bkly 9011
- Robertson, Dorothy Marie Berkeley
1 LS-1734 Walnut st
- Robertson, Edith Gwynne El Paso, Tex.
3 LS-2520 Virginia st Bkly 7247
- Robertson, Florence D. El Paso, Tex.
2 Com-2520 Virginia st Bkly 7247
- Robertson, Garnett Roy San Leandro
2 Com-Duel Brae apts, O Lkad 1797
- Robertson, Meta Belle Modesto
2 LS-2714 Ridge rd Bkly 9093
- Robesky, Robley Melville Bakersfield
1 Min-2620 Bancroft way Bkly 8870
- Robey, Hazel Elizabeth Los Angeles
2 LS-816 Aileen st, O Pied 8314W
- Robie, Edwina Auburn
4 LS-2721 Haste st Bkly 8800
- Robinson, Adelaide Anna Los Angeles
1 Agr-2313 Haste st Bkly 7766J
- Robinson, Bevier Santa Ana
2(1) 2 LS-2228 Dana st Bkly 1053
- Robinson, Elbert Fisher Berkeley
1 Min-2738 Garber st Bkly 4637W
- Robinson, Elwood Joseph, Jr. Los Angeles
(1) 4 LS-2328 Carlton st Bkly 8246J
- Robinson, Eva Marion Vacaville
(1) 4 LS-1547 Euclid av Bkly 6681
- Robinson, Evelyn E. Los Angeles
(1) 3 LS-2211A Telegraph av
- Robinson, George Berkeley
3 Com-2316 Bowditch st Bkly 1416
- Robinson, Helen Mary Riverside
3 LS-2732 Channing way Bkly 7026
- Robinson, Irl Roosevelt Glendale, Ariz.
3 Com-2509 Regent st Bkly 3606J
- Robinson, Jean Harriett San Francisco
2 LS-2714 Ridge rd Bkly 9093
- Robinson, John Abel Merced
1 LS-2320 Bancroft way Bkly 4676
- Robinson, Mardele Berkeley
1 LS-1041 Curtis st
- Robinson, Marjorie Alice Nevada City
1 LS-2820 Piedmont av Bkly 7575J

- Rogers, Helen Dorothy San Diego
1 LS-2710 Channing way Bkly 9520
- Rogers, John Minor Hemet
3 Min-2522 Ridge rd Bkly 5950
- Rogers, Leslie Margaret Oakland
2 Com-251 Santa Rosa av, P
Pied 3874W
- Rogers, Lewis Redford Santa Barbara
2 Min-1640 Euclid av Bkly 7076
- Rogers, Ruth Evelyn Grinnell, Ia.
4 LS-2520 Durant av
- Rogers, Ruth Frances Kerman
3 LS-1428 Greenwood ter Bkly 1767J
- Rohde, Anna San Francisco
21s LS-2147 Blake st Bkly 1809W
- Rohde, Walter Herbert San Francisco
11 LS PreL-2332 College av Bkly 1134
- Rohr, Mary Ruth Watsonville
3 LS-2627 Hearst av Bkly 3229
- Rohrbacher, George Henri Stockton
4 LS and 1 Med-2401 Durant av
Bkly 6504
- Rohrbough, John Dawn Covelo
1 Mec-2411 Virginia st Bkly 7205W
- Rohwer, Catherine Amanda Dixon
2 LS-1547 Euclid av Bkly 6681
- Rohwer, Ray Dixon
4 Chem-1730 La Loma av Bkly 8716
- Rolfes, Naomi Catherine Berkeley
2 LS-2811 Parker st
- Rollins, Helen Julia Pasadena
1 LS-2736 Haste st Bkly 8680
- Rollins, Lloyd La Page San Francisco
21 LS PreA-54 Monte Vista av, O
Pied 2966
- Rolls, Helen Montague Hollywood
11 LS-2228 Chapel st Bkly 9078W
- Rolls, Malcolm Los Angeles
21s LS-2226 Haste st Bkly 4227W
- Rolph, Annette Reid San Francisco
1 LS-2723 Durant av Bkly 9531
- Rolston, Betsey Minerva Pomona
2 LS-2714 Prince st Bkly 2608W
- Romander, Edla Elina Smith River
2 LS-2530 Ridge rd Bkly 7084
- Romero, Mary Louise Chihuahua, Mexico
21 LS-727 Fillmore st, S F
- Ronald, Norman James Oakland
2 LS PreL-1520 Third av, O Mer 2719
- Rooney, Elton Dunn Chico
1 Min-46 Woodland av, S F Park 4641
- Rooney, James Stewart Sacramento
3 LS PreM-2519 Durant av
- Root, Mildred Mabel Oakland
1 LS-326 Sixty-third st, O Pied 7695J
- Roper Ruth Prescott, Ariz.
1 LS-1430 Spruce st Bkly 5849
- Roper, Veda Dorothy Lodi
2 LS-2328 Bowditch st Bkly 2152W
- Rosa, Pedro J. New York, N. Y.
(1) 4 LS and 1 Juris-2611 Durant av
Bkly 4525W
- Roscoe, Beatrice Leslie Morenci, Ariz.
4 LS-2417 LeConte av Bkly 5650
- Rose, Florence Gantt Alton, Ill.
1 LS-2618 1/2 College av Bkly 7059W
- Rose, Joseph Holt Pasadena
1 LS-1809 Euclid av Bkly 1615
- Rose, Mary Holt Pasadena
11 LS-Cloyne Court apts Bkly 4710
- Rosecrans, Rita Iolani Paia Maui, T. H.
4 LS-2335 Warring st Bkly 6744
- Rosenberg, Charles Leonard Oakland
4 LS and 1 Juris-598 Twenty-third st, O
Oakd 4294
- Rosenberg, Claude Newman San Francisco
2 LS-2214 Dana st Bkly 1347
- Rosenberg, Edgar David San Francisco
3 Com-2214 Dana st Bkly 1160
- Rosenberg, Helen Ruth Oakland
1 LS-598 Twenty-third st, O Oakd 4294
- Rosenberg, Morris Ellis San Francisco
2 Chem-290 Richland av, S F Man 3035
- Rosenberg, Tco LeConte Healdsburg
4 Mec-2628 Durant av Bkly 9772
- Rosenberg, Walter San Francisco
3 Agr-University Farm, Davis
- Rosenblatt, Albert Heller San Francisco
21 LS-3201 Clay st, S F West 5968
- Rosenfeld, Delphine Florence Portland, Ore.
2 LS-2700 Channing way Bkly 5876
- Rosenquist, Viola Santa Cruz
3 LS-2511 Durant av Bkly 1762W
- Rosenthal, Ediel San Francisco
13 LS-315 Treehaven apts Bkly 8498W
- Rosenthal, Edwin Hoffman East Las Vegas, N. M.
2 LS PreL-2236 Durant av Bkly 7965
- Ross, Catherine Macdonald Pasadena
1 LS-2515 LeConte av Bkly 4561
- Ross, Edwin Berkeley
2 LS PreL-1846A University av
Bkly 6097W
- Ross, Esther Prescott, Ariz.
1 LS-2542 Durant av Bkly 1364
- Ross, Eugene Willson Hollywood
2 Agr-2646 Dwight way Bkly 4104
- Ross, Grace Elizabeth Fortuna
3 LS-1827 Addison st Bkly 9044J
- Ross, Ira Warren Berkeley
21s LS-2223 Union st
- Ross, Irvin William Alameda
1 CE-1355 Regent st, A Ala 1909
- Ross, John Samuel Carnegie Berkeley
1 Mec-1827 Addison st Bkly 9044J
- Ross, Mary Elizabeth Hollywood
1 LS-2703 Forest av Bkly 8700
- Ross, Nelson Aultman Hollywood
2 LS-2646 Dwight way Bkly 4104

Rosser, Fred	Fresno	
23 LS PreL-2382 College av	Bkly 1134	
Rossi, Pietro Carlo	San Francisco	
2 Chem-2775 Fillmore st, S F	West 677	
Rossiter, Harold Ernest	Pasadena	
1 CE-2521 Channing way	Bkly 9306	
Rossman, Dorothy Dell	Portland, Ore.	
2 LS-2335 Warring st	Bkly 6744	
Rotermund, Maynard Arthur	Berkeley	
1 Mec-2309 Haste st	Bkly 3398J	
Roth, Arnold Edward	Berkeley	
1s LS-1910 Haste st		
Rothenberg, Don Victor	Brawley	
21s LS-2406 Dana st	Bkly 7713	
Rothermel, Frederick Charles	San Francisco	
21s LS-1378 Masonic av, S F	Park 2766	
Rothschild, James Jay	San Francisco	
3 Com-2318 Telegraph av	Bkly 5964	
Rothwell, Arnold Stanley	Portland, Ore.	
2s LS-Glengary apts	Bkly 3431	
Rouleau, Alice G.	Oakland	
4 LS-7 Moss av, O	Pied 8054	
Roumiguiero, Henriette	Berkeley	
4 LS-2213 Dwight way	Bkly 217W	
Rounds, Lucille	National City	
2 Com-221 Linda av, O	Pied 3610J	
Rountree, Gracella	Berkeley	
3 LS-2547 1/2 Piedmont av	Bkly 3967J	
Rountree, Walter Sage	Berkeley	
1 LS-2547 1/2 Piedmont av	Bkly 3967J	
Rourke, Helen	Hancock, Mich.	
2 LS-1805 Shattuck av		
Roush, Janet Marie	Stockton	
1s LS-2214 Dana st	Bkly 1160	
Rowe, Alberta Elizabeth	San Jose	
(1) 3 LS-2535 Channing way		
Rowe, Andrew Carl	Edgewood	
3 LS-2522 Ridge rd	Bkly 5950	
Rowe, Claude L.	Fresno	
3 LS and 1 Juris-2522 Ridge rd	Bkly 5950	
Rowe, Dorothy Ione	Berkeley	
2 Com-2736 Webster st	Bkly 3259	
Rowe, Joseph Anthony	Upland	
3 LS PreM-2642 Bancroft way		
Rowell, Cora Winifred	Fresno	
2 LS-Berkeley Inn	Bkly 6370	
Rowell, Leslie Eugene	Spokane, Wn.	
23 Com-2240 Telegraph av	Bkly 1249	
Royston, Frank Feurt	Portland, Ore.	
1 LS PreL-2214 Dana st	Bkly 1160	
Rubel, Edith Gladys	New York, N. Y.	
2 LS-2731 Regent st		
Rubinfre, Louis	Los Angeles	
2 Mec-1932 University av		
Rubury, Cecelia	San Francisco	
23 LS-415 Jones st, S F	Frkn 6311	
Ruby, Philip	Petaluma	
1 Agr-2425 Bancroft way	Bkly 1734	
Ruby, Saul		
2 Chem-2425 Bancroft way		
Ruby, Scott Roebuck	Berkeley	
2 Mec-1046 Mariposa st	Bkly 5872W	
Rucker, George McDaniel	Hollywood	
1 LS-2001 Allston way	Bkly 6710	
Rudawsky, Austril Bernice	Berkeley	
1 LS-1608 Walnut st	Bkly 1849J	
Rudawsky, Henrietta Amelia	Berkeley	
1s LS-1608 Walnut st	Bkly 1849J	
Ruddick, Leva	Ukiah	
1 LS-2330 College av	Bkly 1803	
Rudee, Wilbur Alexander	San Francisco	
2 LS-171 Carl st, S F	Park 4622	
Rudolph, Clair Sidney	Lompoc	
3 LS-2401 Durant av	Bkly 6504	
Rudovic, Berna	Los Angeles	
3 LS-2809 Buena Vista way	Bkly 8973W	
Rudy, Ireta Loverne	Forster	
2 LS-2400 Bancroft way	Bkly 6484J	
*Ruedrich, Paul	Berkeley	
4 LS-1529 McGee st		
Ruegg, Theodore Gottfried	San Francisco	
2 LS PreA-2400 Haste st		
Ruggles, Annette Emelie	San Francisco	
4 LS-2732 Channing way	Bkly 7026	
Rugh, Charles	Berkeley	
23 LS PreM-Lafayette apts	Bkly 4026	
Rugh, Dwight D.	Berkeley	
3 LS-2314 Haste st	Bkly 4026	
Ruhm, Edana Collins	Seattle, Wa.	
1 LS-2214 Dana st	Bkly 1160	
Ruiz, Leopoldo T.	Capiz, P. I.	
4 LS PreM-2700 Bancroft way		
*Runckel, Chris Henry, Jr.	Berkeley	
4 LS-2313 Rose ter	Bkly 8030J	
Runckel, Louise May	Berkeley	
21 LS-2312 Rose ter	Bkly 8030J	
Runckel, Martha	Berkeley	
3 LS-2312 Rose ter	Bkly 8030J	
Runyan, Oliver Myron	Ogden, Utah	
21 Mec-2626 Durant av		
Rupe, Floyd Presley	Willits	
21 Agr-251 Church st, S F		
Rupert, Fernald Goodrich	Oleum	
2(1) 2 Chem-Oleum		
Ruschhaupt, Adolph Christoph	Fresno	
3 Chem-2345 College av	Bkly 62	
Rush, Orlof E.	Visalia	
3 Mec-2407 Dwight way	Bkly 9025W	
Russell, Catherine Barclay	Portland, Ore.	
4 LS-Hotel Whitecotton	Bkly 7300	
Russell, Foster Douglas	Alameda	
1 Agr-1520 Alameda av, A	Ala 1085	
Russell, Frederick James	San Leandro	
1 LS PreL-443 Lewis av, S L	SL 172J	
Russell, Harry Glaser	Mulvane, Kan.	
(1) 3 Com-1996 University av		

- Russell, Lolia Mildred Hayward
 '1 LS-2545 Hillegass av
- Russell, Lyle Daile Capay
 1 Mec-767 Second av, S F Pac 2493
- Russell, Mae Eleese Tacoma, Wn.
 4 LS-2624 Virginia st Bkly 3668
- Russell, Mary Frances Stafford, Kan.
 (1) 3 LS-2834 Telegraph av Bkly 4965W
- Russell, Richard Joel Hayward
 4 LS-2412 Piedmont av
- Russell, Ruth Jane Stafford, Kan.
 1 LS-2834 Telegraph av Bkly 4965W
- Russett, Jessie Theresa Santa Rosa
 3 LS-2236 Durant av Bkly 7965
- Rust, Virginia Lee Salt Lake City, Utah
 1 LS-2417 LeConte av Bkly 5650
- Ruth, Alice Elizabeth Buffalo, N. Y.
 1 Com-1601 Arch st Bkly 1262W
- Rutherford, Dwight Mundell Colton
 2 Agr-Conservatory, Campus
- Rutherford, Elizabeth Jane Truckee
 4 LS-1036 Oxford st Bkly 5116J
- Rutherford, James Leroy San Diego
 1 Agr-2223 Union st
- Rutherford, James Tyrrell Truckee
 '2 LS-1640 Euclid av Bkly 7057
- Rutherford, John Tipton Truckee
 1 Min-1036 Oxford st Bkly 5116J
- Rutherford, Ruth Guild Calistoga
 1 LS-2306 Virginia st Bkly 4559
- Rutledge, Eric Andrew Berkeley
 3a Mec-2345 College av Bkly 62
- Rutledge, Hattie Lorna Clovis
 '1 LS-2304 Telegraph av Bkly 3428
- Rutter, Darian Oakland
 2 Com-2024 Eighth av, O Mer 1597
- Ruyle, Ralph Richmond Pasadena
 1 Min-1802 Bonita av
- Ryan, Cassell Berkeley
 3 LS-2636 Dwight way Bkly 491W
- Ryan, Clarence Jay Berkeley
 (1) 3 LS PreM-2451 Ashby av
- Ryan, Helen Eustelle Berkeley
 '1 LS-2523 Ridge rd Bkly 8841J
- Ryan, Isabelle Stockton Berkeley
 1 LS-2636 Dwight way Bkly 491W
- Ryan, James Lister Taft
 '1 Mec-2203 Allston way
- Ryan, Lenore Maude Salina, Kan.
 (1) 8 LS-2436 Channnig way Bkly 6433W
- Ryan, Marie Elise Hollywood
 1 LS-2523 Ridge rd Bkly 8841J
- Ryan, Rupert Russell Oakland
 '1 LS-315 E Nineteenth st, O Mer 880
- Ryan, Ruth S. Berkeley
 '3 LS-2511 Hillegass av Bkly 8638J
- Ryan, Sophie Florence Portland, Ore.
 1 LS-2860 Derby st Bkly 6959J
- Ryan, Zellah Margueritte San Diego
 4 LS-2417 LeConte av Bkly 5650
- Ryder, Charles Coiner Santa Barbara
 2 Agr-315 Lincoln av, A
- Ryder, Loren Lincoln Pasadena
 1 LS-2213 Bancroft way Bkly 1238W
- Ryder, Ruby Adelaide Pasadena
 2 LS-1632 Spruce st Bkly 570J
- Sabin, Sylvia Cooper Oakland
 4 LS-837 Thirty-third av, O Frvl 337W
- Sackett, George Lincoln Oakland
 '1s LS-90 Montell st, O Pied 6584J
- Sacry, Myrtle Edna Santa Rosa
 '1s LS-1259 O'Farrell st, S F
- Sadler, Esther Margaret Berkeley
 1 LS-1537 Arch st Bkly 9352W
- Sadwin, Tessie S. Vilna, Russia
 '1 LS-2318½ Bancroft way
- Saeltzer, Dorothea Redding
 2 LS-1715 LeRoy av Bkly 2351
- Safarjian, Nuvart Kingsburg
 1 LS-1538 Milvia st
- Saffie, Clifford Algernon Spokane, Wn.
 1 Com-2609 LeConte av Bkly 3836W
- Sagen, Bertha Princeton
 4 LS-2428 Channing way Bkly 6408
- Sahati, Nicholas Michael Oakland
 '1 LS PreM-894 Twentieth st, O Oakd 3179
- Sabgal, Gobind Ram Berkeley
 3 Mec-2207 Ellsworth st Bkly 2320J
- St. Clair, Arthur Priest Berkeley
 2 Chem-1124 The Alameda Bkly 2977W
- St. John, Marion Esther Berkeley
 '1 LS-1415 La Loma av Bkly 8044W
- St. John, Walter O. Berkeley
 1 Com-2611 Haste st Bkly 3460W
- St. Sure, Joseph Paul Alameda
 2 LS PreL-1209 Lafayette st, A Ala 326
- Saiz, Genevieve McCann Berkeley
 1 Agr-1430 Holly st Bkly 5555
- Sakai, Arthur Gilroy
 2 LS-2229 Telegraph av Bkly 1786
- *Sala, David Germain Stockton
 4 LS-2401 Durant av Bkly 6504
- Sales, Dorothy Harriet Petaluma
 1 LS-2417 LeConte av Bkly 5650
- Salis, Melchior Bakersfield
 1 Agr-2214 Dana st Bkly 1160
- Salisbury, Marshall Henry Corcoran
 1 Chem-2320 Bancroft way

Salmina, Elmer James	St. Helena	Sanford, Clara Colette	Alhambra
4 Agr-University Farm, Davis		4 LS-2511 Virginia st	
Salmina, Regina Catherine	St. Helena	Sanford, Donald	Crescent City
2 LS-2330 College av	Bkly 1803	1 LS-2612 Haste st	
Salmon, Ralph Oliver	Stockton	Sanford, Helen	Alameda
2 LS PreM-2332 College av	Bkly 1134	3 LS-1417 San Antonio av, A	Ala 797W
Sakabury, Ralph Thomas	Ashland, Ore.	Sanford, Henry Grady	San Francisco
3 Min-2507 Channing way	Bkly 3359W	1 LS-1940 Hyde st, S F	Papt 1234
Salsman, Victor Harold	Berkeley	Sanford, Marcella Bianchi	Oakland
2 LS-2539 Durant av	Bkly 3200	12 LS-929 Appar st, O	
Salzberger, Robert David	Berkeley	Sanguinetti, Marie Henrietta	Bakersfield
11 Mec-2208 Milvia st	Bkly 6286	(1) 2 LS-2521 Virginia st	Bkly 1841
Sammi, John Cogwell	San Francisco	Sannomiya, Miya	Oakland
8 Agr-2902 Wheeler st	Bkly 4778W	1 LS PreM-762 Sixteenth st, O	
Samper, Alfonso	Bogota, Colombia		Lkad 5488
11 Com-305 Chicago av, O	Mer 2286	Santos, Abel Paulino	Oakland
Samper, Edward	Amherst, Mass.	1s Mec-2008 Cedar st	Bkly 4706W
12 Agr-2214 Dana st	Bkly 1160	Sarantetes, George Panagiotos	Pizaeus, Greece
Samper, Santiago	Amherst, Mass.	2 LS-2240 Telegraph av	Bkly 1249
12 Agr-2214 Dana st	Bkly 1160	Sartorio, Christine Marie	Oakland
Sams, Alice Miller	Berkeley	1 LS-3124 Grove st, O	Pied 6805W
12 LS-2429 Stuart st	Bkly 1219J	Satterlee, Lester Ulyassa, Jr.	Los Angeles
Samuel, Harold William	San Francisco	2 Com-2228 Dana st	Bkly 1053
12 Mec-2617 Durant av		Satterwhite, John, Jr.	Santa Monica
Samuels, Charles Danziger	Riverside	2 Agr-2442 Haste st	Bkly 5418
4 Chem-2520 Durant av	Bkly 1675	Sattui, Attilio C.	Pern, S. A.
Samuelson, Reuben Crossley	Fresno	13 Agr-2332 College av	Bkly 1134
1 LS-2405 Fulton st	Bkly 8525W	Saturnino, Juan Duldulao	Lawag, P. I.
Sanborn, Margherita Petrea	Pasadena	(1) 3 LS-2606 Dwight way	Bkly 139
1 LS-2714 Ridge rd	Bkly 9093	Satz, Victor	Vladivostok, Russia
Sanborn, William Lynn	Lemoore	1 Com-1692 Green st, S F	
1 Com-2616 Virginia st	Bkly 6716	Saunders, Douglass Hugh	Sierra Madre
Sanborne, Paul Baker	Richmond	3 Agr-University Farm, Davis	
1 Agr-411 S Twelfth st, R	Rehd 999	Saunders, Kenneth Matthew	Sierra Madre
Sand, Helen Kathryn	San Francisco	2 LS-2701 Hearst av	Bkly 2421
2 LS-801 Scott st, S F	Flmr 569	Saunders, Reginald Floyer	Los Angeles
Sanden, Enoch Nathanael	Rock Island, Ill.	13 LS-Stiles Hall	
4 LS-2435 Grove st		Savage, Frank Laurence	Vallejo
Sander, Alice Mae	Anaconda, Mont.	1s LS-2131 Center st	
1 LS-2118A Delaware st		Savage, Philip Lee	Livermore
Sandercock, Edith	Sacramento	2 Mec-2701 Hearst av	Bkly 2421
3 LS-2130 Derby st	Bkly 3652	*Savannah, Edward Jack	Seattle, Wa.
Sanders, Helen Margaret		4 LS-2435 Haste st	Bkly 1984
	Sioux Falls, S. Dak.	Savannah, Emily Dorothy	San Francisco
1 LS-2218 Durant av	Bkly 1984W	1 LS-2630 College av	Bkly 7059J
Sanderson, Clara Wilson	Berkeley	Savoie, Floyd Condit	Bakersfield
1 LS-1441 Bonita av	Bkly 5016W	11 Min-2248 Telegraph av	Bkly 9011
Sanderson, Edith	Oakland	Sawyer, Gordon Hayward, Jr.	Monrovia
3 LS-562 Hobart st, O	Oakd 5790	(1) 3 LS-2328 Haste st	
Sanderson, Elizabeth Lay	Berkeley	Sawyer, Kent Alexander	Monrovia
11 LS-2709 Durant av	Bkly 3060	1 LS-2328 Haste st	
Sanderson, Evelyn Hyde	Berkeley	Saylor, Helen Louise	Berkeley
3 LS-2714 Regent st	Bkly 8738W	3 LS-1031 Oxford st	Bkly 3536
Sanderson, Gorham D.	Berkeley	Saylor, Robert McB.	Berkeley
4 LS-1441 Bonita av	Bkly 5016W	8 LS-1031 Oxford st	Bkly 3536
Sandifer, Arthur Lewis	McCloud	Sayre, Harold Weston	Pasadena
11 Chem-2210 Grove st		13s LS-2601 Durant av	Bkly 23
Sandner, Hubert William	Berkeley	Scammell, Jack Walter	Piedmont
3 Min-2333 Channing way	Bkly 7850	12 Mec-2602 Mountain av, P	Pied 5912

- Scampini, Angelo Joseph San Francisco
2 LS-2215 Fulton st
- Scandrett, Adeline Marie San Francisco
4 LS-219 Eighth av, S F Pac 2707
- Scanlan, Ralph J. San Diego
4 LS-1509 Arch st Bkly 8236J
- Scantlin, Venning Lingle Medford, Ore.
2 LS-2203 Atherton st Bkly 9368R
- Schaefer, Henry Emmet Santa Rosa
1 Com-2024 Crosby av, O Modesto
Schafer, Ward Conneau Bkly 9107
3 LS-2251 College av Los Angeles
Schaffer, John G. Bkly 4698
3a Com-2210 Atherton st
- Schalck, Saretta Grace San Francisco
4 LS-2409 Washington st, S F West 251
- Schallig, Hillem Hendrik Batavia, Java
1 LS-1725 Euclid av
- Schapiro, Zara Marie San Francisco
1 LS-2228 Chapel st Bkly 4558
- Scharff, Arline Wilma Piedmont
3 LS-2119 Addison st Bkly 5398W
- Scharsch, Rose Elizabeth Viola
4 LS-2617 Haste st
- Schary, Harry Alexander Oakland
3 LS PreA-1809 Euclid av Bkly 1615
- Shattenburg, Otto Lee Turlock
3 LS PreM-2528 Ridge rd Bkly 3500
- Schauer, Mildred Estelle Santa Barbara
2 LS-2821 Bancroft way Bkly 1765
- Schausten, August Joseph Crockett
1 Agr-1937 Carlton st
- Scheer, George Burbridge Berkeley
4 Mec-2967 Piedmont av Bkly 4464
- Scheffer, Joseph Godfrey Nevada City
1 CE-631 Diamond st, S F
- Schell, Marian Ruth Berkeley
3 LS-2723 Durant av Bkly 9531
- Schendel, Leona Sophia Turlock
3 LS-2316 Fulton st Bkly 7073W
- Schendel, Wilma Henrietta Turlock
3 LS-2816 Fulton st Bkly 7073W
- Schenk, Grace Lee Kansas City, Mo.
1 LS-1944 Franklin st, O Lksd 945
- Schetter, William Herman Alameda
1a Mec-2301 Durant av
- Schiller, Carl Milford Berkeley
2 Agr-2717 Hillgass av Bkly 8144J
- Schiller, Carl William Fort Morgan, Colo.
1a Mec-2630 Channing way Bkly 2761W
- Schiller, Elbert Ivan Berkeley
2 Agr-2717 Hillgass av Bkly 8144J
- Schilling, Alice-May Berkeley
3 LS-2628 1/2 Benvenue av
- Schirmer, Howard August Oakland
1 CE-1444 Fourteenth st, O Oakd 7674
- Schlaman, Earl Davis Berkeley
4 Agr-University Farm, Davis
- Schlapp, Eberhardt George Melbourne, Australia
4 Agr-University Farm, Davis
- Schlapp, Henry Robert Melbourne, Australia
4 Agr-University Farm, Davis
- Schlesinger, Henriette G. Lincoln, Neb.
3 LS-2715 Channing way Bkly 6694J
- Schlesinger, James William Lee San Francisco
1 LS-1718 Vallejo st, S F Fkln 852
- Schlichting, Marie Augusta San Francisco
4 LS-1549 Eleventh av, S F Snt 964
- Schlichtmann, Emil Peter Oakland
1 Chem-375 Perkins st, O Pied 1620
- Schloss, Owen Tuttle Berkeley
1 LS-3209 Claremont av Bkly 3876
- Schlueter, George Adolph Oakland
2 LS-366 Euclid av, O Oakd 2630
- Schmeltz, Victor Clarence Econdido
1 Agr-2184 University av Bkly 6502
- Schmid, Marguerite Elise San Francisco
2 Com-2416 Valdez st, O
- Schmidt, Evert Leo Maricopa
1a Min-2001 Allston way Bkly 6710
- Schmidt, Gertrude Anna Oakland
1 LS-2114 Webster st, O Oakd 3904
- Schmidt, Oliver Spencer Oakland
2 LS PreM-527 Montclair av, O
- Schmittou, Maurice Brumfield Porterville
2 Agr-2413 Bancroft way
- Schmullian, Allan I San Francisco
1 Com-105 Twenty-first av, S F Bay View 1029
- Schnabel, Lella Grey Berkeley
1 LS-3037 Wheeler st Bkly 3653J
- Schneider, Camilla Angela Los Angeles
1 LS-2709 Channing way Bkly 8528
- Schneider, Margarita Josephine Los Angeles
1 LS-2709 Channing way Bkly 8528
- Schoen, Evelyn Henriette Hilo, T. H.
1 LS-2714 Ridge rd Bkly 9093
- Schofield, Allison Edmond San Francisco
3 LS PreL-2701 Hearst av Bkly 2421
- Scholomovitz, Nockim Scholom San Francisco
1 LS-2221 Dana st
- Schoningh, Paula Berkeley
2 LS-549 Haddon rd, O Mer 1213
- Schrag, Ruth Bernice Richmond
4 LS-60 Scenic av, R Rchd 878
- Schreiber, Madelaine Santa Monica
3 LS-2707 Channing way Bkly 5700
- Schroeder, Marguerite Anna San Francisco
3 LS-3632 Twentieth st, S F Mrkt 8794
- Schroeter, Elizabeth Arlene Reedley
3 LS-2011 Bancroft way Bkly 3808W
- Schuknecht, Randolph Bennett Fresno
1 Agr-2709 Dwight way Bkly 736W

- Schultz, Frank Cameron
Salt Lake City, Utah
2 Chem-2500 Bancroft way Bkly 1848
- Schultz, Freeman Clifford
Merced
2 LS PreL-2515 Dwight way Bkly 6565
- Schultz, Herbert H.
San Francisco
4 LS-2109 Shattuck av Bkly 9300
- Schultze, Helen May
Red Bluff
1 LS-2632 Haste st Bkly 1033W
- Schulz, Bruno Lee
San Martin
11 Com-1730 La Loma av Bkly 8716
- Schulze, Johanna Agnes
Berkeley
1 LS PreM-1731 Carlton st
- Schulze, Raymond Putney
Elk Grove
3 Mec-2248 Telegraph av Bkly 9011
- Schulze, Toska Elizabeth
Berkeley
11 LS-School for the Blind Bkly 6070
- Schutt, Florence Arlene
Lindsay
2 LS-2428 Channing way Bkly 6408
- Schutt, Harold G.
Lindsay
4 LS-2508 Haste st Bkly 767
- Schutz, Helene Emeth
Elsinore
1 LS-2234 Haste st Bkly 149W
- Schuur, Werner August
San Diego
11 LS-2636 Bancroft way Bkly 1276
- Schuyler, Oleta
Tompoe
1 LS-2524 Dwight way Bkly 3789J
- Schuyler, Vera
Oakland
1 LS-2204 Forty-first av, O Frvl 1643W
- *Schwalbach, Amelia O.
Riverside
4 LS-59 Oxford apts Bkly 2385W
- *Schwalbach, Flora E.
Riverside
4 LS-59 Oxford apts Bkly 2385W
- Schwan, Dorothy Louise
Oakland
4 LS-475 Sixty-fifth st, O
- Schwaner, Katharine
Winterset, Ia.
4 LS-2329 Carlton st Bkly 1673W
- Schwartz, Esther Dresden
San Francisco
3 LS-Head of Canyon rd Local 141
- Schwartz, Esther Elizabeth
Sioux Falls, S. Dak.
3 LS-2624 Virginia st Bkly 3663
- Schwartz, Gustav Sutro
San Francisco
14 LS-Palace Hotel, S F Dgls 931
- Schwartz, Isabelle
Sioux Falls, S. Dak.
1 LS-2624 Virginia st Bkly 3663
- Schwennecke, Otto Albin
San Francisco
3 Mec-3333 Sacramento st, S F West 6641
- Schwimley, Leslie Carr
Lodi
2 LS PreL-2412 Piedmont av Bkly 5098
- Scioberetti, Raymond
Los Angeles
1 LS-2008 Shattuck av Bkly 3135
- Sclater, Kenneth Cameron
Burmah, India
3 Min-2116 Durant av
- Scobey, Frederick C.
Berkeley
2 CE-1733 Marin av Bkly 1338J
- Scofield, Edith Adelia
Los Angeles
3 LS-2717 Forest av Bkly 2031W
- Scott, Agnes Carrie
Berkeley
(1) 3 LS-2163 Dwight way Bkly 4468W
- Scott, Dorothy Alice
Helena, Mont.
12 LS-2627 Hearst av Bkly 4009
- Scott, George, Jr.
Mesa, Ariz.
2 Mec-2248 Telegraph av Bkly 9011
- Scott, Gordon Nickelsen
Honolulu, T. H.
1 Chem-2415 Bowditch st Bkly 8650J
- Scott, Haller Bertram
Watsonville
11 CE-2305 Bancroft way
- Scott, Harvey Carol
Oakland
1 LS-781 Alcatraz av, O Pied 4306
- Scott, James Coleman
Ferrdale
4 LS-2528 Ridge rd Bkly 3500
- Scott, John McC
Los Angeles
3 LS PreL-1815 Highland pl Bkly 1682
- Scott, Joseph Francis
Lindsay
3 LS-2424 S Atherton st
- Scott, Laura Aileen
Oakland
1 LS-694 Thirty-seventh st, O Pied 1549W
- Scott, Lester Worden
Utiah
4 LS-1329 Walnut st
- Scott, Marjorie
Berkeley
4 LS-3050 College av Bkly 3064
- Scott, Matthew Henry
Victoria, B. C.
2s Chem-2616 Virginia st Bkly 6716
- Scott, Ralph Winfield
San Francisco
4 Min-2316 Bowditch st Bkly 1416
- Scott, Raymond Robert
Selma
12 LS PreM-2248 Telegraph av Bkly 9011
- Scott, Wallace Wendell
Berkeley
1 LS PreL-2163 Dwight way Bkly 4468W
- Scott, Wesley Edgerton
Lodi
1 LS PreM-1920 University av Bkly 7586
- Scritsmier, Lester J.
Long Beach
2 Com-2527 Ridge rd Bkly 6107
- Scroggs, Frank Walter
Berkeley
1 LS-3945 Clay st, S F Pac 7079
- Seudamore, Thomasine Lurline
Lakesport
1 LS-2486 Shattuck av
- Scudder, Marion Emiline
Santa Ana
1 LS-2542 Durant av Bkly 1364
- Scully, Teresa Cecile
Oakland
11 LS-6605 Dana st, O Pied 6412
- Seabury, Carol M.
Berkeley
2 LS-1430 Hopkins st Bkly 8735
- Seagraves, Charles H.
Coeur d'Alene, Idaho
1s Agr-2805 Cedar st Bkly 6196

- Seale, Anne Louise
 12 LS-2400 Piedmont av Bkly 5224
 Seamon, Cassius Elliott Berkeley
 4 LS PreM-1323 Henry st Bkly 4692W
 Searby, Alice Elizabeth Berkeley
 13 LS-2514 Buena Vista way
 Searla, Helen May Nevada City
 4 LS-2421 LeConte av Bkly 8062
 Sears, Grace Evangeline Stockton
 1 LS-2032 Kittredge av Bkly 6830J
 Seaton, Donald Lathrop Santa Rosa
 3 Agr-2607 Hearst av Bkly 5913
 Seaton Howard Louis San Diego
 12 LS-2425 LeConte av Bkly 4334
 Seaton Stuart Phillips Berkeley
 2 Med-1512 Holly st Bkly 8688W
 Seawell, John Frederick Oakland
 2 LS PreL-5819 Genoa st, O Pied 6777
 Sedgley, Jotham Palmer Cloverdale
 4 LS-Faculty Club, Campus Bkly 2855
 Sedgwick, Virgil De Mott Long Beach
 1 LS PreM-2212 Bancroft way
 Sedwell, Joseph Vincent Los Angeles
 11 LS PreM-1516 Scenic av
 Seely, John Franklin Berkeley
 3 Com-2615 Etna st Bkly 2822W
 Seffens, Charles Dodge Fortuna
 1 Chem-2908 Channing way Bkly 2677
 Seibert, Bessie Ethel Salinas
 2 LS PreM-2834 Forrest av Bkly 7435J
 Seibert Gertrude Lucille Hollywood
 (1) 2 LS-2228 Chapel st Bkly 4558
 Sein, Herbert Marriage Los Angeles
 2 LS-Stiles Hall Bkly 481
 Seiverson, Leslie Wilbur San Jose
 1 Agr-2001 Allston way Bkly 6710
 Sellars, Gladys Alvaletta Oakland
 1 LS-1630 Eighth av, O
 Sellars, Mildred Charlotte Berkeley
 3 LS-2934 Harper st Bkly 8190
 Selleck, Eloise Berkeley
 1 LS-2547 Dwight way Bkly 6432J
 Selling, Edythe S. San Francisco
 14 LS-1624 Scenic av Bkly 4217
 Senter, Willis Rolland Lemoncove
 4 Agr-2646 Dwight way Bkly 4104
 Serex, John Frederic Alameda
 3 LS-1820 Central av, A Ala 1089W
 Serr, Eugene Frank, Jr. San Bernardino
 2 Agr-2828 Benvenue av Bkly 1565J
 Service, Elwin Hubert Ceres
 1 LS-2120 Kittredge st Bkly 2090
 Serviss, George Edward San Gabriel
 2 LS-2609 LeConte av Bkly 3836W
 Seanon, Porter San Francisco
 2 LS-2830 Telegraph av Bkly 9227
 Settlement, Weston H. Pasadena
 2 LS PreL-2332 College av
 Settlement, Charles Porterville
 11 Min-2600 Durant av Bkly 1731W
- Sevier, Ernest Eureka
 4 LS PreM-2620 Bancroft way Bkly 8870
 Sevier, Kenneth Dill Eureka
 2 LS PreL-2228 Dana st Bkly 1053
 Sevier, Randolph Berkeley
 11 Agr-2712 Derby st Bkly 2649W
 *Sewell, Edward Granville Santa Rosa
 4 LS-2115b Durant av Bkly 7098J
 Sewell, James Harding Berkeley
 12 LS-2115b Durant av Bkly 7098J
 Sexton, John Kenneth Sacramento
 1 Agr-2970 Piedmont av Bkly 8678J
 *Seymour, Elizabeth Mill Valley
 4 LS-1715 LeRoy av Bkly 2351
 Shadwick, Elmer Norris Oakland
 11 Com-2631 Thirteenth av, O
 Shafer, Donald Charles El Centro
 3 LS PreM-2434 Telegraph av
 Shafer, Mary Selma
 1 LS-2021 1/2 Channing way Bkly 663
 Shaffer, Reva G. Woodland
 11 LS-1621 Scenic av Bkly 5102
 Shaghoian, Aghavni Avedis Van, Armenia
 1 LS PreM-2502 Telegraph av
 Shallenberger, Jay Marion Lancaster, Ohio
 1(1) 4 LS-5231 Coronado av, O
 Pied 5651W
 Shane, Dorothy Annette Oakland
 12 LS-5719 College av, O Pied 4954
 Shandling, Saul Vancouver, Wn.
 1 LS-2117 Center st
 Shapero, Samuel Maurice San Francisco
 4 LS-1517 Spruce st Bkly 987
 Sharland, Arthur Edward Bakersfield
 2 LS-2529 Hearst av Bkly 40
 Sharman, Henry Harland Salt Lake City, Utah
 1 Mec-2214 Dana st Bkly 1160
 Sharp, Dorothy Oroville
 11 LS-2524 LeConte av Bkly 2531
 Sharp, Hubert El Paso, Tex.
 2 Mec-2120 Kittredge st Bkly 2090
 Sharp, James Benjamin Richmond
 1 Com-15 Bissell av, R
 Sharp, Paul Winning Fort Jones
 4 LS and 1 Med-1640 Euclid av Bkly 7057
 Sharp, Selwyn Jackson Santa Ana
 3 Com-2615 Derby st Bkly 7915W
 Sharp, Thomas William Scott San Francisco
 4 LS-1445 Hawthorne ter Bkly 1542
 Sharpe, Ruth Page Oakland
 1 LS-465 Oakland av, O Oakd 4485
 Sharpless, Peter Edgar Whittier
 (1) 3 Agr-2600 Durant av Bkly 1731W
 Shatto, Marjorie Elizabeth Sebastopol
 2 LS-2307 Piedmont av Bkly 718
 Shattuck, Charles Boynton Los Angeles
 11 CE-2601 Durant av Bkly 23

Shattuck, Edward Stevens	Los Angeles	Shepherd, Glenn Allen	Tulare
1 CE-2601 Durant av	Bkly 23	4 Com-2500 College av	Bkly 5943
Shattuck, Henrietta	Berkeley	Sheridan, Madelene Margaret	East Auburn
4 LS-2441 Haste st	Bkly 7904W	2 LS-2749 Dwight way	Bkly 6444
Shattuck, Lillian Edna	Los Angeles	Sheridan, Marcia Delasaine	Pasadena
4 LS-2519 Ridge rd	Bkly 7614	1 LS-1742 Grove st	
Shaver, Marco	Shadyside, Ohio	Sheridan, Mary Bridget	Oakland
1 Mec-2418 Dana st	Bkly 3814W	2 LS-2814 Mitchell st, O	
Shaver, Margaret Woodard		Sheridan, Mary Kathleen	Oakland
	Van Buren, Ark.	1 LS-2314 Mitchell st, O	
2 LS-2435 Dwight way	Bkly 773	Sheridan, Roberta	Oakland
Shaw, Martha Jane	Oakland	2 LS-311 Hanover av, O	Mer 3207
1s LS-2221 Dwight way	Bkly 464W	Sherman, Doris Ora	Orest
Shaw, Virginia Aimee	Oakland	8 LS-2519 Hillegaas av	Bkly 477
1 LS-3434 Harper court, O	Frwl 1540J	Sherman, Elizabeth Hallock	Bisbee, Ariz.
Shaw, Walter Hanks	San Francisco	3 Com-2714 Ridge rd	Bkly 9093
12 LS-2507 Vine st		Sherman, Francis Harvey, Jr.	Oakland
Shay, Carleton Carlisle	Los Angeles	1 Agr-1705 Linden st, O	Lind 1576
14 Agr-2239 Dwight way		Sherman, Penoyer Levi	Piedmont
Shea, Edmund Hill	Portland, Ore.	1 Agr-1909 Oakland av, P	Pied 3024J
(1) 2 LS-2610 Durant av	Bkly 7804	Sherrod, Winifred	Berkeley
Shea, John Dinwiddle	Oakland	4 LS-2232 Haste st	Bkly 149W
1 Chem-5851 Birch court, O	Pied 4462J	Sherwin, Marvin Birkett	Bishop
Shea, Martha Helen	El Cajon	1 LS PreL-1329 Bonita av	Bkly 3926J
4 LS-2821 Bancroft way	Bkly 1765	Sherwood, Clyde Charles	Corning
Shearer, Edyna	Ukiah	1 LS PreL-2419 Durant av	Bkly 9149
2 LS-2530 Dwight way	Bkly 3912J	Sherwood, Reginald Harold	Glendora
Sheehan, William John	San Francisco	1s LS-477 Oakland av, O	
1 LS-133 Winfield st, S F	Man 642	Shevky, Ahmed Eshref	San Francisco
Sheela, Valentine Barbara	Porterville	1 LS-2018 Webster st, S F	West 4240
1 LS-1520 Durant av	Bkly 1675	Shickle, Howard William	Los Angeles
Sheesley, Glenwood Norman	Livingston	(1) 2 LS PreL-2211 Ellsworth st	Bkly 5496W
1 Agr-1507 Grant st	Bkly 982	Shields, Adolph James	Anderson
Sheldon, Clarisse	Berkeley	2 LS-2419 Durant av	Bkly 3362
12 Com-2733 Derby st	Bkly 1014W	Shields, Annie DeVere	Berkeley
Sheldon, Florence	Berkeley	3s LS-2838 Derby st	
1 LS-2709 Channing way	Bkly 8528	Shields, Mildred Marcelle	Los Angeles
Sheldon, Fred Henry, Jr.	Ojai	4 LS-450 Alcatraz av, O	Pied 8090J
4 Agr-2248 Telegraph av	Bkly 9011	Shiels, Lawrence Wilfred	Los Angeles
Sheldon, Hervey Rayborne	Perris	1 LS-2315 Dwight way	Bkly 4026
3 LS PreM-2528 Ridge rd	Bkly 3500	Shier, Cyril Winfred	Pasadena
Shell, John S.	Colton	2 Med-1264 Sixth av, S F	
3 Chem-2528 Ridge rd	Bkly 3500	Shiffer, William Harrison	Selma
Shellenbarger, Clarissa Thelma	Sanger	1 Chem-2435 Haste st	Bkly 1980
12 Agr-2511 Miller av	Bkly 7577W	Shilling, Jerome Warren	Los Angeles
Shellenbarger, George Halmer	Los Angeles	3 LS PreM-2345 College av	Bkly 62
3 Com-1730 La Loma av	Bkly 8716	Shilling, Louise Lannette	Los Angeles
Shelton, Mary Etta	Union, Ore.	1 LS-2627 Hearst av	Bkly 4009
1 LS-1577 Rose st		Shima, Ryohel	New Westminster, B. C.
Shenon, Fred Paul	Salmon, Idaho	1 LS-1739 Euclid av	Bkly 6441
(1) 2 Com-2627 Ridge rd	Bkly 2541	Shimmin, Mildred Inez	Paso Robles
Shenon, Philip John	Salmon, Idaho	1 LS-2520 Virginia st	Bkly 7247
3 Min-2627 Ridge rd	Bkly 2541	Shimoda, Frank Kagato	Los Angeles
Shepard, Lawrence Edwin	Compton	8 Chem-1739 Euclid av	Bkly 6441
1 Mec-2508 Haste st	Bkly 767	Shinoda, Kiyoshi	Maritime
Shepardson, Harry Clare	Alameda	1 Mec-1739 Euclid av	Bkly 6441
4 LS and 1 Med-2119 Eagle av, A	Ala 1824	Shirasawa, Saikichi	Berkeley
Shepherd, Esther	Whittier	14 Chem-1739 Euclid av	Bkly 6441
2 LS-2530 Ridge rd	Bkly 7084		

- Shirck, Henry Milton Alameda
 1s Com-2252 Lincoln av, A
- Shively, Douglas Santa Paula
 (1) 3 LS-2400 Haste st
- Shliff, Pinchus Boreas Sacramento
 (1) 2 LS-Cloyne court Bkly 4710
- Shoemaker, Ethabel Oakland
 1 LS-1051 Forty-fifth av, O
- Shoemaker, Helen Marie Riverside
 1 LS-2247 Bancroft way Bkly 8873
- Sholes, Jeannette Elizabeth Moscow, Idaho
 (1) 4 LS-2704 Channing way Bkly 6814J
- Shone, Daisy Claire San Francisco
 1 LS-1881 Third av, S F Snt 3756
- Shore, Martha Hollister
 (1) 2 LS-2519 Ridge rd Bkly 7614
- Short, Eugene Francis Long Beach
 12 Com-2231 Shattuck av Bkly 2206W
- Short, Fred Marion San Diego
 1 LS-2528 Ridge rd Bkly 8500
- Shorten, Marian Elizabeth San Francisco
 1 LS-2032 Kittredge st Bkly 6830J
- Showalter, Forrest Pearl Denver, Colo.
 1 LS PreL-2436 Durant av
- Shower, Hazen Emanuel Monrovia
 1 LS-2327 Bancroft way
- Showers, Byron Jennings Fresno
 4 Agr-2332 College av Bkly 1134
- Shull, Beulah Belle Visalia
 8 LS-2400 Durant av Bkly 7954
- Shultis, Arthur Greeley, Colo.
 (1) 2 Agr-2600 Durant av Bkly 1731W
- Shumate, Frederick Ortman San Francisco
 1 LS PreM-1901-Scott st, S F West 377
- Sibbet, Annamay Los Angeles
 1 LS-Hotel Whitecotton Bkly 7800
- Sibbet, Laurabelle Los Angeles
 1 LS-Hotel Whitecotton Bkly 7800
- Sibley, Thomas Granville Visalia
 1 Mec-2501 Ridge rd Bkly 1335
- Siddell, Sanford Sidney San Francisco
 1 LS PreM-2602 Sacramento st, S F West 6332
- Sideris, Christos Plutarch San Francisco
 2 Agr-2031 Berkeley way
- Sides, Thomas Marion Selma
 1 Mec-2634 Bancroft way Bkly 1276
- Siebert, Alfred Adolph Honolulu, T. H.
 4 LS PreM-2316 Bowditch st Bkly 1416
- Siegrist, Frank Dekker Berkeley
 2 LS-2158 Ashby av
- Siema, Fred Jurgen Buena Park
 4 LS-2420 College av Bkly 906J
- Siema, Harry William Anaheim
 2 LS-2420 College av Bkly 906J
- Siess, Hulda Christine Petaluma
 4 LS-2821 Bancroft way Bkly 1765
- Sievert, Guilio Ellsworth Alhambra
 2(1) 2 Min-2320 Bancroft way
- Sikes, Herbert George Placerville
 12 LS-2223 Chapel st
- Silbermaster, Nathan Gregory Shanghai, China
 11 LS-2224A Chapel st
- Silent, Harold C. Los Angeles
 4 Mec-1730 La Loma av
- *Siler, Fay San Diego
 4 LS-2312 Channing way Bkly 6041W
- Siler, Mary Bohart San Diego
 2 Com-2012 Channing way Bkly 6041W
- Silke, Mabel A. Redlands
 2(1) 3 LS-1648 Russell st Bkly 9550W
- Silver, Philip Los Angeles
 1 LS PreL-2734 Forest av Bkly 3484J
- Silverman, Solomon San Francisco
 1 LS PreL-1336 McAllister st, S F West 350
- Silvermane, Florence Katherine Los Angeles
 4 LS-2545B Benvenue av
- Silverstin, Gladys Gertrude Oakland
 1 LS-341 Lenox av, O Lksd 4211
- Simi, Hendric Edwin Reedley
 13 Mec-2333 College av Bkly 1722
- Simms, Charles Arno Blythe
 2 LS PreL-2600 Bancroft way Bkly 1901
- Simon, Charles Joseph San Francisco
 2 Med-1375 Page st, S F Park 2720
- Simon, Clara Phildius Salt Lake City, Utah
 11 LS-2315 Dwight way Bkly 4026
- Simonds, Mildred Harriet Oakland
 2 LS-2723 Forest av Bkly 9067J
- Simonic, Martin Middletown
 1 Agr-2217 Dwight way Bkly 7487J
- Simons, Franklin Joseph Alhambra
 4 LS-2601 Channing way Bkly 5904
- Simons, Mary Isabel Alhambra
 1 LS-2417 LeConte av Bkly 5650
- Simpson, Edward Cannon Los Angeles
 (1) 2 LS-2126 Hearst av Bkly 4693W
- Simpson, Eugene Hassett San Francisco
 1 CE-358 Cornwall st, S F Pac 5226
- Simpson, Ida Aleen Berkeley
 3 LS-2226 Parker st Bkly 1988W
- Simpson, James Richmond San Francisco
 3 Min-2606 Bancroft way Bkly 2617
- Simpson, John Raymond Oakland
 2s LS-Claremont Manor, O Pied 449W
- Simpson, Lesley Byrd Los Angeles
 3 LS-2126 Hearst av Bkly 4693W

- *Simpson, Paul Raymond Stevensville, Mont.
 4 Chem-2606 Bancroft way Bkly 2617
 Simpson, Thomas Russel Fresno
 4 CE-1640 Euclid av Bkly 7057
 Sims, Dorothy Donaldson Elk Grove
 4 LS-2429 Channing way Bkly 4648
 Sinai, Ida S. Stockton
 4 LS-2524 LeConte av Bkly 2531
 Sinclair, Archie Dewar Eureka
 1 LS PreM-2333 College av Bkly 1722
 Sines, Raymond Ralph Prescott, Ariz.
 1 LS PreL-1423 Ninth st, O Oakd 8890
 Singh, Lal Stockton
 3 Agr-1731 Allston way Bkly 3803J
 Sinnock, Arthur Herbert Berkeley
 3 Agr-University Farm, Davis
 Sisson, Margaret Oakland
 21 LS PreM-1611 Castro st, O Oakd 1260
 Sizelove, Frances Ludora San Jacinto
 1 LS-2641½ Channing way Bkly 2276J
 Sizer, Miriam Berkeley
 4 LS-2734 Russell st Bkly 7656J
 Skaaale, Arthur John Berkeley
 3 LS PreM-2437 Martinez av Bkly 4961W
 Skaff, John Elias San Francisco
 2 LS PreM-4079 Twenty-fourth st, S F
 Man 1639
 Skee, Norma Jean Healdsburg
 11 LS-1181 Colusa av Berkeley
 Skiff, Ethel Pinckney Bkly 776
 11s LS-2073 Allston way National City
 Skinner, James Henry Bkly 6716
 2 Mec-2616 Virginia st Santa Monica
 Skinner, Jeanne Jeannette Bkly 4009
 1 LS PreM-2627 Hearst av La Mesa
 Skinner, Ralph Asa Bkly 9463W
 (1) 4 LS-2907 Claremont av Hermiston, Ore.
 Skinner, Ruth Ann Bkly 4561
 1 LS-2537 Virginia st Fillmore
 Skinner, Walter Stowers, Jr. Bkly 2483
 3 Com-2214 Union st Hollister
 Skow, Alvin Bkly 1901
 2 Chem-2600 Bancroft way Seattle, Wn.
 Slack, Gwynne Hampton Berkeley
 1 LS-2235½ Haste st Bkly 5359W
 Slade, Lucille Mae Berkeley
 4 LS-1825 Hearst av Berkeley
 Slater, Arthur Henry Bkly 2515
 (1) 2 Agr-2035 Channing way Los Angeles
 Slater, Collise Mary Orange
 21 Com-2624 Virginia st Bkly 2928W
 Slater, Francis Clyde Berkeley
 21 Agr-2235 Chapel st Bkly 2316W
 Sleeper, Lucile Wynola
 2 LS-2520 Hilgard av
- Slewing, Royce Lester Medford, Ore.
 2 Com-2233 Ellaworth st Bkly 295W
 Sloan, Mary Elizabeth Barnsow
 1 LS-2531 Channing way Bkly 7068W
 Slosson, Gladice Lucile Monrovia
 1 LS-2515 LeConte av Bkly 4561
 Small, B. Mae Los Gatos
 2(1) 3 LS-1602 La Loma av Bkly 6341J
 Small, Philip Horatio Los Angeles
 (1) 2 Com-2734 Forest av Bkly 3484J
 Smallin, Karl Francis Clovis
 1 Mec-2117 Center st
 Smart, Eben Knight Grass Valley
 3 LS-2647 Durant av Bkly 102
 Smart, Georgia Uarda Salt Lake City, Utah
 4 LS-2301 Durant av Bkly 37
 Smart, Granville Ira Los Angeles
 1 Min-1912 Haste st
 Smart, Willard Rossiter San Diego
 (1) 3 Mec-1637 Euclid av Bkly 4138J
 Smartt, Ella Meteah Hollywood
 2 LS-2525 College av Bkly 9572W
 Smead, Faith Roanna South Pasadena
 3 LS-2520B Ridge rd
 Smedberg, Joseph Duncan Oakland
 1s CE-5558 Taft av, O Pied 4612J
 Smelser, Lorene Edna Napa
 4 LS-2427 Stuart st Bkly 4730W
 Smith, Agnes Cornelia Los Angeles
 4 LS-2320 Bancroft way Bkly 4676
 Smith, Alfred T. Oakland
 1 LS-2416 College av Bkly 8476J
 Smith, Alfred William Vallejo
 2 LS-2406 Dana st Bkly 7713
 Smith, Alma Tangier Berkeley
 2 LS-2835 Hillegass av Bkly 3151W
 *Smith, Alvin David San Francisco
 4 Chem-2214 Union st Bkly 2483
 Smith, Alyce Duden Sacramento
 2 LS-2333 Channing way Bkly 5161W
 Smith, Anna Matilda Los Angeles
 1s LS-1259 O'Farrell st, S F
 Smith, Anne Anita Berkeley
 3 LS-2502 Bancroft way Bkly 4240
 Smith, Arthur Hathaway Oakland
 21 Agr-1439 Second av, O Mer 3087
 Smith, Budd Joseph Grass Valley
 4 LS-Elks Club Bkly 1002
 Smith, Burton Benjamin San Jose
 1 LS-2425 LeConte av Bkly 4334
 Smith, Carl Edward Brooklyn, N. Y.
 1s Agr-1603 Oxford st Bkly 3442
 Smith, Carrie Amanda Saticoy
 3 LS-2400 Bancroft way Bkly 6488J
 Smith, Charles Francis Monrovia
 3 Com-2317 Channing way Bkly 3924W
 Smith, Charles Love Fellows
 2 Agr-2435 Hilgard av Bkly 6406

- Smith, Charles Sheridan
2 Mec-8512 Park blvd, O
Smith, Charlotte Delia
3 Agr-2925 Garber st
Smith, Clara Lillian
1 LS-1325 Spruce st
Smith, Clarence Backer
4 LS-2521 Hearst av
Smith, Constance Fielding
1 LS-2739 Bancroft way
Smith, Cyril Eugene
2 LS-2437 Telegraph av
Smith, Deane Kingsley
12 Min-1608 Grant st
Smith, Edith Asta
1 LS-1325 Spruce st
Smith, Ejnar
3 Mec-2500 College av
Smith, Elizabeth Merion
4 LS-2709 Channing way
Smith, Elliott Lloyd
1 Chem-2248 Telegraph av
Smith, Elmer Corliss
1 Mec-2308 Dwight way
Smith, Emily Agatha
11 LS-87 Vernon st, O
Smith, Eugene Frederick
1 LS-736 Eighth st, O
Smith, F. Fenwick
23 LS PreM-1726 Euclid av
Smith, Flora
1 LS-2435 Hilgard av
Smith, Florence Madeline Van Buren, Ark.
1 LS-2435 Dwight way
Smith, Floyd Arthur
1(1) 3 Mec-2206 Eighth av, O
Smith, Francis Sidney
11s Com-403 Fair Oaks st, S F
Smith, Fred Leland
1 Agr-2525 Piedmont av
Smith, Fred Wild
(1) 2 Mec-376 Sixty-second st, O
Smith, George Elliott
13 Com-540 Vincente av
Smith, Grace May
2 LS-Euclid apts
Smith, Harold Grove
1 Com-200 Piedmont av
Smith, Harry Hoxie
1 Mec-2609 Hillegass av
Smith, Harvey Albert
4s CE-6525 Telegraph av, O
Smith, Harvey L.
4 LS-2231 Haste st
*Smith, Helen Marie
4 LS-920 Kingston av, P
Smith, Helen Merion
2 LS-2725 Channing way
- Berkeley
Mer 1887
Petaluma
Bkly 2025W
Willows
Bkly 999W
Los Angeles
Bkly 708
San Francisco
Bkly 204
Merced
Petaluma
Fresno
Bkly 999W
Fresno
Bkly 5942
Los Angeles
Bkly 8528
Fortuna
Bkly 9011
Sacramento
Bkly 9277R
Spokane, Wn.
Oakd 4722
Alameda
Oakd 4158
Piedmont
Bkly 6706
Los Angeles
Bkly 6406
Bkly 773
Oakland
Pied 4648J
Eureka
Bkly 8910W
Twin Falls, Idaho
Bkly 9375J
National City
Bkly 6601
San Francisco
Bkly 6897J
Sacramento
Stockton
Piedmont
Pied 8327J
Juneau, Alaska
Bkly 7950
- Smith, Helen Wells
2 LS-2434 Channing way
Smith, Hosmer Elliott
1 LS PreM-5417 Lawton av, O
*Smith, Howard Watkins
4 LS-2910 Adeline st
Smith, Hubert Hamilton
11s LS PreL-376 Sixty-second st, O
Smith, J. Albert
1 Com-2401 Durant av
Smith, James Murray
(1) 2 LS PreL-2416 Allston way
Smith, Kathryn Elizabeth
1 LS-2531 Ridge rd
Smith, Laurence Ronald
2 Chem-2320 Bancroft way
Smith, Lemuel Coats
11 Mec-2318 Telegraph av
Smith, Leon Clothier
2 Com-2937 Piedmont av
Smith, Lester Ralph
13 Mec-265 Sutton av, S L
Smith, Louise Betts
11 LS-2536 Piedmont av
Smith, Lucy Frances
(1) 3 LS-2626 Benvenue av
Smith, Lurline Yaidra
2 LS-2542 Durant av
Smith, Margaret Jane
11s LS-2330 College av
Smith, Marion Beatrice
2 LS PreM-2311 Bowditch st
Smith, Marion Doris
1 LS-250 Grand av, O
*Smith, Mildred Marie
4 LS-3893 Clay st, S F
Smith, Milton Maxim
12 Mec-2701 Hearst av
Smith, Milton Walters
1 LS-2501 Ridge rd
Smith, Morton Bailey
4 Mec-2431 Woolsey st
Smith, Olive Fay
2 LS-Euclid apts
Smith, Raymond Goddard
11 Agr-1904 Florence st
Smith, Reuben William, Jr.
2 LS-5702 Ayala st, O
Smith, Robert Bowen
3 Mec-1726 Euclid av
Smith, Ruth Eleanor
3 LS-2627 Hearst av
Smith, Thomas Cecil
1(1) 2 Min-2109 McKinley st
Smith, Vestina Pearl
4 LS-1601 Bonita av
- Fresno
Bkly 5957W
Oakland
Pied 1962
Berkeley
Bkly 8036J
Oakland
Pied 4648J
Salt Lake City, Utah
Bkly 6504
Los Angeles
Denver, Colo.
Bkly 7086
Orange
Bkly 4676
El Paso, Tex.
Bkly 5964
Los Angeles
Bkly 2248J
Corning
Honolulu, T. H.
Bkly 3274J
Claremont
Bkly 2908
Oroville
Bkly 1364
Oakland
Bkly 1803
Lindsay
Bkly 7037W
Oakland
Lkad 2178
San Francisco
Pac 4427
Berkeley
Bkly 2421
Lakeview, Ore.
Bkly 1335
Berkeley
Bkly 8036W
Twin Falls, Idaho
Bkly 9375J
Modesto
Oakland
Pied 8288W
Ridgefield, Wn.
Bkly 6706
Oakaloosa, Ia.
Bkly 4009
Tucson, Ariz.
San Francisco

- *Smith, Wallace P. V. Kingsbury
4 LS-2820 Dwight way Bkly 3851
- Smith, William Jewell Los Angeles
(1) 2 LS PreM-2228 Dana st Bkly 1053
- Smith, Yvonne Nella Ventura
12 LS-2133 Santa Clara av, A Ala 749
- Smolt, Helen Jolley Manila, P. I.
12 LS-2511 Durant av Bkly 1762W
- Smoot, Charles Calvert Oakland
21 Mec-481 Thirty-eighth st, O Pied 4546
- Smyth, Lois Waco, Tex.
(1) 4 LS-2520 Durant av Bkly 1675
- Smyth, Marion H. Waco, Tex.
12 Agr-2609 LeConte av
- Snider, Clifford Cecil Oroville
21 Mec-1204B Lincoln av, A
- Snoddy, Emory Sherman El Monte
11 Agr-2605 Durant av
- Snook, Helen Jean Oakland
13 LS-354 Thirty-fourth st, O Pied 789
- Snook, Muriel Elizabeth Maricopa
2 LS-2723 Durant av Bkly 9531
- Snook, Vivian Cleone Healdsburg
3 Com-2400 Piedmont av Bkly 5224
- Snook, Walter Bonnard Berkeley
3 LS-2903 Dwight way Bkly 888
- Snow, John Howland Modesto
1 LS-2600 Hilgard av Bkly 5747
- Snow, John W. Oakland
11 Min-1840 1/2 Park blvd, O
- Snyder, David P. Madison
2 Agr-5458 Broadway, O
- Snyder, Eva Isabel Alameda
1 LS-2214 Vine st Bkly 8364W
- Snyder, Henry Runyon Berkeley
1 CE-2713 Forest av Bkly 904
- Snyder, Jacqueline Sophie Oakland
2 LS-670 Oakland av, O Pied 1176W
- Snyder, Katherine Louise Oakland
2(1) 3 LS-1341 Milvia st Bkly 8137J
- Snyder, Olof Eugene Alameda
3 Agr-University Farm, Davis
- Snyder, Robert Wade Colusa
4 LS-1444 Page st, A Ala 1429W
- So, Toshi-hiko Sacramento
1 LS-1739 Euclid av Bkly 6441
- Soares, Edward Stephen San Francisco
21 LS-2406 Dana st Bkly 7713
- Soderberg, Ethel Inez Kerman
3 LS-930 Inyo st Bkly 8643J
- Solari, Attala Victorine Santa Barbara
3 LS-2828 Bowditch st Bkly 2152W
- Solari Emmanuel Delbe Santa Barbara
(1) 3 LS-2150 Center st
- Soldani, Rose Marie Oakland
21 LS-Peralta apts, O Oakd 2885
- Solomon, Alfred P. Oakland
4 LS and 1 Med-1013 Sixtieth st, O Pied 6306W
- Solomon Clayton C. Oakland
12 Com-1013 Sixtieth st, O Pied 5597J
- Solomon, Melvin Oakland
14 LS and 1 Juris-1013 Sixtieth st, O
- Sommer, Anita Gonzales
1 LS-1216 Curtis st Bkly 7320J
- Sommer, Anna Louise Pasadena
4 Chem-2217 Fulton st Bkly 3810
- Sommer, Armard Denver, Colo.
(1) 3 LS-2630 Bancroft way Bkly 2630
- Sommer, Elsie Portland, Ore.
4 LS-2421 Virginia st Bkly 1171J
- Sommer, Hazel Matilda Alameda
1 LS-1557 Sherman st, A Ala 2639W
- Sommers, Vera Margaret San Francisco
1 LS-1593 McAllister st, S F West 1926
- Somner, Dorothy Frances Willits
1 LS-2330 College av Bkly 1803
- Somps, George Peter Oakland
13 Mec-321 E Nineteenth st, O Mer 1432
- Sonne, Coral Lorena Yerington, Nev.
11 LS-2417 Bancroft way Bkly 1445
- *Sonnichsen, Sonnich Christian Kirkman, Iowa
4 LS-1412 McGee st
- Soo-Hoo, Andrew Berkeley
2 Mec-2114 Channing way
- Soo-Hoo, Lincoln Berkeley
1 Min-2114 Channing way
- Sooy, Gertrude Campbell Berkeley
1s LS-2215 Rose st Bkly 4940
- Sooy, Joseph Willfred Alameda
1s LS PreM-2345 College av Bkly 62
- Sorem, Evelyn Ruth Modesto
(1) 3 LS-2500 Bancroft way Bkly 1848
- Sorrenti, Sandy Stephen Madera
1 Mec-2507 Channing way
- Sorrick, Ruth Estelle Berkeley
2 LS-2230 Durant av Bkly 5987W
- Soto-Hall, Ralph San Francisco
2 Med-2195 Green st, S F Fmr 2618
- Soule, Beatrice Frances Oakland
23 LS-302 Perkins st, O Lnd 867
- Soulé, Esther Turner Los Angeles
3 LS-Sequoia apts Bkly 7259J
- Southwick, Juna Ruth Los Angeles
1 LS-2627 Hearst av Bkly 4009
- Sovulewski, Lawrence Yosemite
21 CE-2248 Telegraph av Bkly 9011
- Sowerby, William Curtis Stockton
1 Min-2172 Blake st Bkly 165
- Soyster, Hale Bryan Pomona
2 LS-2713 Haste st Bkly 73

*Spader, Genevieve	San Francisco	Sperling, Sam	San Francisco
4 LS-2709 Channing way	Bkly 8528	1 LS PreM-2226 Telegraph av	
Spalte, Bert Renshaw	Oakland	Spillum, Agnes Georgiana	Butte, Mont.
2 LS PreM-5267 Locksley av, O		1 Com-2627 Hearst av	Bkly 3229
Spalding, Lucile	Bloomington, Ill.	Spillum, Anna Dorothea	Butte, Mont.
1 (1) 2 LS-Y W C A, O		1 LS-2627 Hearst av	Bkly 3229
Spalding, Sarah Lulu	Los Angeles	Spindt, Lester James	Pasadena
2 LS-2818 Haste st	Bkly 7766J	3 LS-1711 Euclid av	Bkly 8378
Spangler, Lurah Leyhe	Los Angeles	Spirz, Gustave	San Francisco
1 LS-2623 Channing way	Bkly 6928J	2 CE-56 Langton st, S F	Mrkt 9456
Sparks, Alfred Edmond	Suisun	Spivock, Abraham	San Francisco
1 Com-2635 Channing way	Bkly 1895	2 LS PreL-1183 Howard st, S F	Mrkt 8402
Sparks, Beatrice	Los Angeles	Spivock, Nathan	San Francisco
4 LS-Sequoia apts	Bkly 7050W	2 Com-1183 1/2 Howard st, S F	Mrkt 8402
Sparks, Dorothy Jane	Suisun	Spohn, Clay Edgar	Oakland
3 LS-1547 Euclid av	Bkly 6681	2 LS-Stanford Court apts	Grfd 464
Sparks, Herbert Eastman	Denver, Colo.	Sprague, Richard Homer, Jr.	Menlo Park
1s Com-532 Thirtieth st, O	Lkad 3825	1 Com-1809 Euclid av	
Sparks, Lowell Llewellyn	Lincoln	Spray, Joseph Abram	Oakland
1 LS PreL-2530 Chilton way	Bkly 4203	2 Com-2383 College av	Bkly 1722
Spaulding, Howard Wallace	Oakland	Spring, Jane Osgood	Yerington, Nev.
2 LS-4191 Opal st, O	Pied 3135	1 Com-2311 Bancroft way	
Spaulding, Leland John	San Francisco	Springborg, Kathryn	Fresno
1 LS-2425 LeConte av	Bkly 4384	2 LS-1715 LeRoy av	Bkly 2351
Spaulding, Lucy Larcom	Pasadena	Springer, James Wilson	Pasadena
3 LS-2736 Haste st	Bkly 8680	1 LS PreL-2234 Atherton st	
Spaulding, Robert Kilburn	Oakland	Springstead, Montelle Hofhine	El Cajon
4 LS-4191 Opal st, O	Pied 3135	1 Com-2547 Channing way	
*Spaulding, Ruth Dorothy	Los Angeles	Sprott, Albert Bryan	San Diego
4 LS-2709 Channing way	Bkly 8528	3 LS-2345 College av	Bkly 62
Spear, Whitney	Alameda	Sprott, Vernon Blythe	San Diego
2 Mec-2251 College av	Bkly 9107	1 Agr-722 Fifty-fourth st, O	Pied 1778J
Spease, John Franklin	San Diego	*Sproul, Harry Allan	Berkeley
2 Mec-2415 Bowditch st	Bkly 8650J	4 Agr-2223 Derby st	Bkly 2305W
Speck, Mathew Emil	Oakland	Sproule, Francis Robert	Fallbrook
1 Chem-568 Spruce st, O		2 Chem-2529 College av	Bkly 7875W
Speddy, Kenyon Clark	Berkeley	Sproule, Wesley Rasner	Vallejo
1 Com-2228 Dana st	Bkly 1053	1 LS PreM-1450 First av, O	Mer 1040
Speer, Mary Catherine	Los Angeles	Spunn, Eugene Reuben	San Francisco
(1) 3 LS-1908 Yolo av	Bkly 2498W	4 LS PreA-2001 Allston way	Bkly 6710
Speir, Godfrey Burras	South Pasadena	Spurlock, Carl Harlan	Covelo
3 Mec-1509 Arch st	Bkly 8236J	1 Agr-1620 Oxford st	Bkly 2988J
Spelley, Edith	San Francisco	Spurrier, Fred Keagle	Berkeley
2 LS-2630 1/2 Durant av	Bkly 8571W	1 LS PreL-2200 Piedmont av	Bkly 6601
*Spence, Dorothy	Los Angeles	Squires, Dorothy Grace	Orange
4 LS-2710 Channing way	Bkly 9520	(1) 3 LS-2529 Channing way	Bkly 8125W
Spence, Jack Lyall	Oakland	Staats, Dorothy Evelyn	Berkeley
1 LS-2634 Bancroft way	Bkly 1276	2 LS-64 The Uplands	Bkly 2735
Spence, Percival Williams	Valley Falls, Kans.	Stafford, Douglas Daniel	Alameda
1 LS PreM-2800 Fulton st		3 LS PreM-2034 San Antonio av, A	Ala 1563
Spence, Wilfred Alan	Oakland	Stafford, Iva Venus	Lincoln
1s Com-2175 Steinway av, O	Frvl 1742W	2 LS-2406 Bancroft way	Bkly 6428
Spencer, Hattie Lena	Oxnard	Stafford, Ross Guthrie	Marysville
1 LS-2515 LeConte av	Bkly 4561	1 Chem-1730 LaLoma av	Bkly 8716
Spencer, Robert Louis	Oakland	Stahl, Gustave	San Francisco
2 Mec-2618 Durant av	Bkly 2765	4 LS PreL-Bancroft apts	Bkly 6759W

Stahl, Loyal Curns	Yuma, Ariz.	Stebbins, Jocelyn Phillard	Berkeley
1 LS PreL-2412 Piedmont av		1 LS-56 Eucalyptus rd	Bkly 1204W
Stalre, Elizabeth	Oxnard	Steck, Leo Varner	Colton
1 LS-2314 Hilgard av	Bkly 5452J	2 Chem-2435 Haste st	Bkly 1980
Stalder, Ona	Riverside	Steding, Martha Katherine	Berkeley
2 LS PreA-2500 Durant av	Bkly 1381J	1s LS-1834 Delaware st	Bkly 8113J
Stamper, Delmer Marion	Stockton	Steed, George Valentine	Los Angeles
1 LS PreM-1741 Virginia st	Bkly 2487J	3 Agr-University Farm, Davis	
Stamper, Frederick Melvin	Berkeley	Steel, Earl Gladstone	Santa Barbara
2 LS-2454 Derby st	Bkly 1907W	1 LS PreA-2200 Piedmont av	Bkly 6601
Stanbery, Lorene Elsie	Grangeville, Idaho	Steel, Van Hartwell	Oroville
2 LS-2406 Bancroft way	Bkly 6428	4 LS-2200 Piedmont av	Bkly 6601
Stanford, Everett Russell	So. Pasadena	Steele, Colan	Santa Monica
1 (1) 2 LS-1925 Home st	Bkly 2434W	2 LS PreM-Oxford apts	Bkly 9832W
Stanford, Lloyd Robinson	Fresno	Steele, Frank Rawson	Berkeley
2 LS PreM-1925 Home st	Bkly 2434W	13 LS-2235 Haste st	Bkly 8169J
Stanley, Marjorie Garland	Alameda	Steele, Ralph Roderick	Berkeley
1 LS-1517 High st, A	Ala 2989J	3 Agr-Conservatory, Campus	Local 82
Stanley, Otha Leonora	Finley	Steeves, Bertha R.	Berkeley
1 LS-2413 Bancroft way	Bkly 1745	13s LS-2420 Durant av	Bkly 8757J
Stanley, Sherwood Leonard, Jr.	San Diego	*Steeves, Dudley Whitney	Hayward
3 Chem-2209 Bancroft way		4 Mec-2617 Durant av	Bkly 822
Stannard Charles William	Berkeley	Steeves, Kathleen Amanda	Ferndale
1s Mec-2364 Woolsey st	Bkly 6684W	4 LS-2627 Hearst av	Bkly 4009
Stannard Edward Mahlon	Ashland, Ore.	Stefgen, Lloyd Alexander	San Diego
2 Agr-2605 Durant av	Bkly 6981	1 LS PreA-2248 Telegraph av	Bkly 9011
Stanyan, Martha Anne	San Francisco	Steiger, Katherine	Vacaville
4 LS-2624 Virginia st	Bkly 3663	1 Com-2624 Virginia st	Bkly 3663
Staples, Clayton Pierce	Berkeley	Stein, Dorothy Ellen	Alhambra
1 Min-2531 Grove st		2 LS-1620 Walnut st	Bkly 5622J
Stark, Naomi A.	Oakland	Stein, Jack Lorens	Berkeley
2 LS-1410 Eighth st, O.	Oakd 1416	4 LS and 1 Med-1502 Walnut st	Bkly 6311W
Starks, Edmund Perrott	Fortuna	Stein, Louise Dorothea	Berkeley
2 LS PreL-1921 University av		2 LS-1502 Walnut st	Bkly 6311W
Starr, Fred Eugene	Oakland	Stein, Margaret Lillian	Berkeley
4 Com-2647 Durant av	Bkly 102	3 Com-2522 Virginia st	Bkly 366
Starr, Mabel Lillian	Piedmont	Steinhart, Edward Payson	Santa Clara
1 LS-1023 Harvard rd, O	Lksd 5549	1 Agr-2630 Bancroft way	Bkly 4488J
Starratt, Helen Brett,	Oakland	Steinkeller Verna Winetta	San Francisco
1 Com-384 Fairmont av, O	Oakd 9040	1 LS-1482 Sutter st, S F	Papt 650
Stauber, Anthony Wenzel	Oakland	Steinmann, Theodore Bernard	San Diego
1s Com-4218 Webster st, O		2 LS-2312 College av	Bkly 893W
Staud, Frederick, Jr.	Alameda	Steinmeyer, Hugo A.	Oakland
12 Mec-1901 Central av, A	Ala 1193	12 LS PreL-2453 Damuth st, O	Frvl 191W
Stauffer, Margaret Mary	Chico	Steinnort, Carl Russell	Santa Rosa
1 LS-2700 College av	Bkly 1442J	13 Com-745 E Twelfth st, O	Mer 182
Stanton, Maria Gage	Los Angeles	Steirly, Georgia Anslow	San Rafael
2 LS-2714 Ridge rd	Bkly 9093	2 LS-2627 Hearst av	Bkly 3229
Stanton, Mary Virginia	Los Angeles	Stelling, Catherine Louise	Gilroy
1 LS-2417 LeConte av		12 LS-2429 Channing way	Bkly 4648
Stand, George DeWitt	Spring Valley	Stelling, Charles	San Francisco
1 Min-2411 Virginia st	Bkly 7205W	2 Com-805 Baker st, S F	West 4992
Steadman, Donald Edward	Oroville	Stelling, Charles Edward	Gilroy
2 Agr-2333 College av	Bkly 1722	12 LS-2305 Bancroft way	Bkly 7461
Staley, Talton Edwin	San Francisco	Stelling, Otto Claus	San Francisco
2 LS-2634 Bancroft way	Bkly 1276	1 LS PreL-127 Noe st, S F	Mrkt 3701
Stearns, William Cooley	Berkeley		
1 Com-1319 Henry st	Bkly 9071J		

Steltzner, Albert Guenther	San Francisco	Stevens, Harry Edward	Alameda
1 Mec-766 Sutter st, S F	Frkn 7866	2 LS-1504 Verdi st, A	Ala 4248J
Stem, Bertha Lenora	Pomona	Stevens, Helen Maude	Oakland
2 LS-2714 Prince st	Bkly 2608W	1 LS-986 Lakeshore av, O	Oakd 2978
Stephens, Alfred	Oakland	Stevens, Henry Clowes C.	Portland, Ore.
12 LS-577 Lake Park av, O	Oakd 3958	1 CE-1815 Highland pl	Bkly 1682
Stephens, Bernice Merrill	Berkeley	Stevens, Henry Meldrum	Portland, Ore.
11 LS-937 Spruce st	Bkly 9292W	4 LS PreL-2713 Haste st	Bkly 78
Stephens, Homer Don	Berkeley	Stevenson, Andrew Muldrow	Vacaville
1 Com-1809 Grant st	Bkly 3834R	1 Agr-2946 Claremont av	Bkly 6977J
Stephens, Howard Washington	Anaconda, Mont.	Stevenson, Annie Elizabeth	Vacaville
2 LS PreM-2345 College av	Bkly 62	2 LS PreL-1547 Euclid av	Bkly 6681
Stephens, Jean Charlotte	Oakland	Stevenson, Kenneth Martin	Riverside
1 Com-3815 Thirty-fifth av, O		11 LS-2406 Bancroft way	
Stephens, Joseph Harold	Sacramento	Stevenson William Merriam	Waverly N. Y.
3 LS-2620 Bancroft way	Bkly 8870	(1) 2 Agr-2523 Ridge rd	Bkly 8899J
Stephens, Joseph James Walter	San Diego	Stevick, Guy LeRoy	Berkeley
1 Mec-2325 Dana st	Bkly 8383W	24 LS PreL-1616 La Vereda st	Bkly 8633
Stephens, Leon Huburt	Monrovia	Stevick, Marion Dorothy	Berkeley
1 LS-2247 Bancroft way	Bkly 3873	2 LS-1616 LaVereda av	Bkly 8633
Stephens, Margaret Eleanor	Los Angeles	Stevick, Theron Pratt	Berkeley
4 LS-2254 Fulton st	Bkly 2091	12 Min-2330 Telegraph av	Bkly 4429
Stephens, Roscoe Franklin	Duarte	Stewart, Andrew Bryan	Porterville
2 Com-2214 Dana st	Bkly 1160	1 LS-2070 University av	
*Stephens, Thomas Jackson	Madison	Stewart, Charlotte Eleanor	Hanford
4 LS-2200 Piedmont av	Bkly 6601	11 LS-2435 Dwight way	Bkly 773
Stephenson, John Towle	Sacramento	Stewart, Donald Gordon	Chico
1 Com-2529 Hearst av	Bkly 40	4 LS-1919 Bancroft way	Bkly 6342J
Stephenson, Paul Richard	Los Gatos	Stewart, Eleanor Dolores	Sacramento
1 LS-1602 La Loma av	Bkly 6341J	1 LS-2231 Shattuck av	
Stephenson, Robert Lee, Jr.	Oakland	Stewart, Ellsworth Randal	Los Angeles
1 LS-267 Perkins st, O	Oakd 2423	2 LS-2400 Haste st	
Stern, Charles Alfred	Los Angeles	Stewart, Harold Lord	Chico
1 LS-Treehaven apts	Bkly 8639W	4 LS and 1 Juris-1919 Bancroft way	Bkly 6342J
Stern, Herman Jastro	Los Angeles	Stewart, Hugh Ross	Santa Monica
4 LS-Treehaven apts	Bkly 8639W	12 Min-2647 Dwight way	
Sterne, Geraldine	Oakland	Stewart, John Archer	Berkeley
1 LS-3510 Telegraph av, O	Pied 6208	4 LS-2710 Woolsey st	Bkly 8996J
Sterner, Mary Lucile	Oxnard	Stewart, John Dilworth	Chico
(1) 3 LS-2520 Durant av	Bkly 1675	4 LS and 1 Juris-2616 Virginia st	Bkly 6716
Sterrett, Mary Helen	Lindsay	Stewart, Katharine Lucille	Jerome, Idaho
(1) 3 LS-2520 Durant av	Bkly 1675	4 LS-2418 College av	Bkly 4440
Stetzer, Maggie Louisa	Beach, N. D.	Stewart, Mabel Esther	Oakland
11 Com-1920 Francisco st		12 LS-2834 Twenty-first av, O	Mer 3508
Stevens, Abigail	Berkeley	Stewart, Margaret	Berkeley
3 LS-2650 Parker st	Bkly 5094J	2 Com-2710 Woolsey st	Bkly 8996J
Stevens, Chalmers Carlton	Long Beach	Stewart, Robbie Louise	Los Angeles
1 LS PreL-2212 Bancroft way	Bkly 6391W	3 LS-2520 Durant av	Bkly 1364
Stevens, Frank Fortmann	San Francisco	Stewart, Robert Malcolm	San Francisco
11 LS PreM-2334 Durant av	Bkly 3485	11 Chem-2442 Haste st	Bkly 5418
Stevens, George Edwin	Pinole	Stewart, Robert Miller	Oakland
3 LS-2345 College av	Bkly 62	11s Min-2834 Twenty-first av, O	Mer 3508
Stevens, Harley Crawford	Portland, Ore.		
2 LS PreL-2713 Haste st	Bkly 78		

- Stewart, Ronald Bowman San Francisco
3 Mec-2610 Durant av Bkly 7804
- Stewart, Ruth Crows Landing
12 LS-2417 LeConte av Bkly 5650
- Stickles, Harriet Beecher Clovis
8 LS-1632 Spruce st Bkly 570J
- Stickney, La Verne Wood Ingleswood
8 Min-1711 Euclid av Bkly 8378
- Stickney, William H. San Francisco
4 Com-2316 Bowditch st Bkly 1416
- Stiehl, Ralph Phillips Salt Lake City, Utah
(1) 8 Com-2333 Channing way Bkly 2791
- Stile, Walter L. Chico
11 Agr-587 Aggar st, O
- Stiles, Nellie Lucile McFarland
3 LS-2080 Lincoln st Bkly 6889W
- Still, Glenn Maurice Long Beach
4 Agr-2501 Ridge rd Bkly 1835
- Still, Lloyd Wilber Milton, Ore.
3 LS-2522 Ridge rd Bkly 5950
- Stilling, Otto Charles San Francisco
1 LS PreL-127 Noe st, S F
- Stilman, Clinton Adelbert Lompoc
12 CE-2605 Durant av
- Stimpson, Earl Ray Merced
1 Mec-2515 Dwight way Bkly 6565
- Stinchfield, John Maxwell Martinez
1 Mec-705 Shrader st, S F Park 7028
- Stine, Dorothy Portland, Ore.
(1) 3 LS-2714 Ridge rd Bkly 9093
- Stine, Gretchen Planada
1(1) 3 LS-2618 Durant av
- Stines, Grace Elisabeth Conneaut, Ohio
11a LS-2729 Jackson st, S F Flmr 1012
- Stirling, Matthew Williams Berkeley
4 LS-2429 Martinez av Bkly 8208
- Stitser, Rollin Charles Dorris
13 Agr-1730 La Loma av Bkly 5716
- Stock, Lloyd Stanley San Francisco
3 LS-2630 Bancroft way Bkly 4488J
- Stocking, Jean Goodell Santa Cruz
2 LS-2220 Union st Bkly 8469W
- Stocking, Louise San Francisco
3 Chem-2228 Durant av
- Stockle, Louise San Francisco
2 LS-2310 Bowditch st Bkly 8325W
- Stockle, Mary Emily San Francisco
4 LS-2310 Bowditch st Bkly 8325W
- Stockton, Claire Roberta Bakersfield
1 LS-2318 Telegraph av Bkly 5964
- Stockton, Eunice Tommy Huntington Beach
1 LS-1943 Bancroft way
- Stockwell, Grace Mary Berkeley
4 LS-953 Indian Rock av Bkly 1698W
- Stockwell, Howard Henry Wooster, Ohio
2 Com-953 Indian Rock av Bkly 1698W
- Stoker, Pearl Josephine Lovelock, Nev.
1 LS-2253 Piedmont av Bkly 5542J
- Stokes, Owen William Modesto
1 Mec-2120 Kittredge st Bkly 2090
- Stokes, Walter Tyrrell San Francisco
4 LS PreM-219 Eighteenth av, S F
Pac 8409
- Stolz, Violet Louise San Francisco
12 LS-119 Collingwood st, S F Man 5412
- Stone, Correlle Barton Berkeley
1 LS-2362 Woolsey st Bkly 8765J
- Stone, Douglas Dacre Los Angeles
3 LS PreA-1730 La Loma av Bkly 8716
- Stone, Dudley Chapin Los Angeles
11 LS PreM-Lafayette apts Bkly 4026
- Stone, Frances Elisabeth Berkeley
1 LS-95 Plaza dr Bkly 4626W
- Stone, Frances Willard Anita, Ia.
(1) 2 LS-2542 Durant av Bkly 1364
- Stone, Gladys Portales, N. M.
1(1) 2 LS-2429 Channing way Bkly 4648
- Stone, Harold Joiner Ceres
13a LS-2606 Dwight way Bkly 139
- Stone, Martha Los Angeles
11 LS-2417 LeConte av Bkly 5650
- Stone, Philip Marion Berkeley
8 Com-2208 Ward st Bkly 6181J
- Stone, Ridley Draper, Jr. Nashville, Tenn.
1 LS PreL-Oxford apts Bkly 9332W
- Stone, Robert Malcolm Dillon, Mont.
(1) 2 Com-2428 Dwight way Bkly 4244W
- Stone, William Havemeyer San Francisco
1 LS PreL-Stanford court apts, S F
Grfd 464
- Stonebrook, Audrey Evangeline South Pasadena
1(1) 8 LS-2627 Hearst av Bkly 3239
- Stoner, Melicos LeRoy Ingleswood
13 Agr-University Farm, Davis
- Stoneroad, Robert S. Portland, Ore.
1 LS-2521 Hearst av Bkly 708
- Stoops, Katharine Gano Oakland
2 LS-2418 Durant av Bkly 8537J
- Storer, Sherman Prentiss Piedmont
1 Com-33 Mesa av, P Pied 5643
- Storment, Frank Lester Eagle Rock
3 LS-2625 Hearst av Bkly 9535
- Storms, Muriel Helen Berkeley
2 LS PreL-1402 Euclid av
- Stoufer, Florence Nesperce, Idaho
1 LS-1436 Spruce st Bkly 7061J
- Stoufer, Isabel Merry Nesperce, Idaho
1 LS-1436 Spruce st Bkly 7061J
- Stovall, Cordelia Pauline Williams
11 LS-Berkeley Inn
- Stovall, Ruth Williams
12 LS-2420 Durant av Bkly 8757J
- Stover, Virginia Ethel San Luis Obispo
2 LS-2703 Stuart st Bkly 6082J

- Stow, Forest Chadbourne Walnut Creek
 *4 LS PreL-499 Stow av, O Mer 2535
- Stowell, Frances Robson San Francisco
 2 LS-2732 Channing way Bkly 7026
- Stoy, A. Monica San Francisco
 3 LS PreM-Treehaven apts Bkly 8841W
- Strain, Dorothea Great Falls, Mont.
 (1) 2 LS-Hotel Claremont Bkly 9300
- Strain, Mildred B. Berkeley
 *1 LS-2402 Roosevelt av Bkly 9336J
- Strang, Arthur Wilbur Oroville
 *1 Mec-1419 Walnut st Bkly 4261J
- Strange, Ian Maclaren Lodi
 4 Com-2410 Bancroft way Bkly 4443W
- Stratton, Elenore Berkeley
 3 LS-55 Canyon rd Bkly 5854W
- Street, Loretta Louise San Francisco
 1 LS-2538 Channing way Bkly 5972
- Streit, Carolina Marie Glendale
 *(1) 2 LS-Stanyan and Oak sts, S F
- Strickfaden, Charles Grayson Santa Monica
 1 Agr-2647 Durant av Bkly 102
- Stridborg, Alfred Benjamin Turlock
 3 LS-2626 Durant av Bkly 1289
- Stringham, Ella Harriet Santa Cruz
 1 LS-600 Bush st, S F Grfd 2591
- Strobridge, Marion Francis Hayward
 4 LS-2526 Hilgard av Bkly 1441
- Strong, William Duncan Portland, Ore.
 1 LS PreL-2522 Ridge rd Bkly 5950
- Strother, Charles Woodhull Piedmont
 1 Agr-2022 Oakland av, P Pied 2969
- Strother, Mary Gertrude Piedmont
 *1 LS-2022 Oakland av, P Pied 2969
- Strother, Newell Wallis Fresno
 2 Agr-2320 Bancroft way
- Stryher, Garrett Bartlett San Francisco
 1s Mec-2238 Ellsworth st Bkly 4230
- Stufflebeem, William Melvin Tulare
 2 LS PreM-2320 Bancroft way
- Stump, Vera Santa Rosa
 3 LS-2611 Durant av Bkly 4525W
- Sturm, William Andrew Porterville
 2 LS-2211 Ellsworth st Bkly 5496W
- Styles, Donald Larrish Hanford
 1 Com-2248 Telegraph av Bkly 9011
- Suarez, Florencio Perfecto Manila, P. I.
 *1 Com-1822 University av
- Sudow, Jeanette Miriam Calexico
 4 LS-2238 Ellsworth st Bkly 4280
- Sugarman, Reva Claire San Francisco
 3 LS-3639 Seventeenth st, S F
- Sugiyama, Yoshiji San Francisco
 4 LS and 1 Med-1739 Euclid av Bkly 6441
- Suhl, Alvena Marie Pendleton, Ore.
 1 LS-2738 Webster st Bkly 5791W
- Suho, Shuk Berkeley
 *1 LS-1917 Addison st Bkly 5779W
- Suhr, Helene Oakland
 *(1) 2 LS-505 Fairmount av, O Pied 281W
- Sullivan, Blanche Gertrude San Leandro
 4 LS-2330 College av Bkly 1803
- Sullivan, Clara Harriette Berkeley
 3 Com-2704 Channing way Bkly 6814J
- Sullivan, Hazel Henrietta San Leandro
 (1) 8 LS-2330 College av Bkly 1803
- Sullivan, Helen Frances Oakland
 1 Agr-5530 College av, O
- Sullivan, Irene Margaret San Francisco
 1 LS-252 Eighth av, S F Pac 1058
- Sullivan, Vernon Roy Oakland
 2 LS-1514 Chestnut st, O Lksd 3753
- Sullivan, William Ignatius San Francisco
 2 LS PreL-707 Capp st, S F Valen 3282
- Summers, Ormond Frederick Oakland
 1 LS PreL-1105 Thirty-second st, O Pied 6981
- Summers, Thomas Dibblee San Francisco
 1 Com-2617 Durant av Bkly 823
- Sumaki, Barnett Modesto
 3 LS and 1 Juris-2335 Pacific av, S F Flmr 1080
- Sun, Chen Yun Jee-Hsien, Honan, China
 2 LS-2600 Etna st Bkly 7593
- Suppes, Raymond Louis Los Angeles
 4 Agr-University Farm, Davis
- Surryhne, Hubert Modesto
 *4 LS-2330 Haste st Bkly 423W
- Surryhne, Philip Ralph Modesto
 1 LS PreM-2521 Channing way Bkly 9806
- Surryhne, Rodney Edward Modesto
 2 LS PreM-2521 Channing way Bkly 9806
- Susaeta, Jesus Elias Santiago, Chile
 3 Agr-University Farm, Davis
- Sutherland, Edward Francis San Francisco
 2 CE-855 First av, S F Pac 6058
- Sutherland, Helen Earle San Francisco
 4 LS PreA-2732 Channing way Bkly 7026
- Sutton, Amelia San Francisco
 *1 LS-2542 Sacramento st S F Flmr 362
- Sutton, Ben Bryan Hanford
 3 Agr-2419 Durant av Bkly 4191
- Sutton, John Grant, Jr. San Francisco
 1 LS-2251 College av Bkly 9107
- Sutton, Marion Berkeley
 4 LS-2425 Oregon st Bkly 2648J
- Sutton, Susie Provo, Utah
 2 LS-1915 University av Bkly 8309
- Sutton, Vernon Raymond Anderson
 *1 LS-2146 Shattuck av
- *Suydam, Lillian Alameda
 4 LS-1012 Union st, A Ala 2890
- Swan, Florence Lorraine Oakland
 4 LS-2984 West st, O Oakd 4574

Swarm Paula	Upton, Wyo.	Sylva, Alvin Joseph	Sonora
4 LS-2818 Telegraph av	Bkly 5964	1 LS-2600 Durant av	Bkly 1731W
Swart, Faye H.	Elkhart, Ind.	Sylvester, Anna Chapin	Berkeley
(1) 2 LS-5463 Boyd av, O	Pied 8328W	4 LS-1623 Hearst av	Bkly 3619
Sweeney, Melvin Phillip	San Francisco	Sylvester, Harold Kenneth	Berkeley
*1 LS PreM-1711 Euclid av	Bkly 3378	1 LS-2434½ Telegraph av	Bkly 850
Sweet, Corinne	Oakland	Sylvester, Henry Daniel	Honest
2 LS-2604 Ninth av, O		1 Agr-3158 College av	Pied 26
Sweet, Hoosik Joseph	Fresno	*Symes, Harold Bertram	Berkeley
4 LS and 1 Juris-2218 Haste st		4 Com-2522 Ridge rd	Bkly 5950
Sweet, Richard Ernest	Orange	Symes, Jack	Berkeley
1 Agr-2137 Berkeley way	Bkly 112W	3 LS-2218 Roosevelt av	Bkly 595
Sweet, Vida Alma	Berkeley	Symmons, Viola Carolyn	Berkeley
*1s LS-2956 California st	Bkly 8521W	4 LS-3304 Claremont av	Pied 1572J
Sweetland, Reginald Edwin	Hollister	Symon, Vera Marie	Oakland
4 LS-2113½ Delaware st		1 LS-785 Kingston av, O	Pied 2149W
Sweetman, Lloyd Cawthra	Berkeley	Szoke, Georgette Eraine	Alameda
(1) 2 LS-2823 Benvenue av		2 Com-920 Santa Clara av, A	Ala 2028W
Sweigert, Jeannette	San Jose	Szukalski, Joseph Peter	San Francisco
1 LS-2633 Etna st	Bkly 4066	1 LS PreM-5608 Mission st, S F	Rndph 2896
Swenerton, Lillian Henriette	Long Beach	Tabor, Lawrence La Verne	Sacramento
*1s LS-2511 Hillegaass av		1 Min-2530 Ellsworth st	Bkly 3990
Swenson, Valerie Eleanore	Turlock	Taggard, Ernesteen Kealoa	Honolulu, T. H.
*2 Com-2635 Hillegaass av	Bkly 2491J	2 LS-2214 Dana st	Bkly 5043W
Swett, Margaret	Martinez	Taggard, Fannie Delia	Porterville
1 LS-1700 Euclid av	Bkly 6789	3 Agr-2519 Ridge rd	Bkly 7614
Swift, Margaret Beaumont	Martinez	Tait Catherine Sarah	Phoenix, Ariz.
(1) 3 LS-2417 LeConte av	Bkly 5650	1 Com-2627 Hearst av	Bkly 3229
Swift, Margaret Walker	Pasadena	Tait, Dudley	San Francisco
4 LS-2736 Haste st	Bkly 8680	*1) 2 Chem-Hotel Claremont	Bkly 9300
Swift, Ruth	St. Helena	Tait, Florence Eleanor	Corvallis, Ore.
*1 Com-1134 Taylor st, S F	Frkn 6638	2 LS-415 Pierce st, S F	
Swift, Veta Gertrude	Brentwood	Tajonera, Mariano Mercader	San Francisco
1s LS-1417 West st, O		1s Com-2710 Channing way	Bkly 9520
Swindell, Leslie Earl	Berkeley	Takagi, Thomas Tomaki	Hilo, T. H.
2 Mec-2317 Blake st	Bkly 9277W	2 Com-1739 Euclid av	Bkly 6441
Swinford, Katharine Wadsworth	Santa Cruz	Takesuye, Albert Elji	Watsonville
1 LS PreL-2311 Bancroft way	Bkly 214	*2 Mec-died, Feb. 1, 1920	
Swinford, Lee Houghton	Santa Cruz	Talbert, Lillian Elva	San Jose
2 LS-2069 Center st		2 LS-2428 College av	Bkly 1033J
Swisher, Ruth Eugenia	Healdsburg	Talbot, Emily	Boston, Mass.
1 LS-2624 Virginia st	Bkly 3663	*1 LS-2781 Regent st	Bkly 2075
Switzer, Luin Treat	Berkeley	Talbot, Leonard Ayers	Santa Rosa
1 LS PreL-2921 Forest av	Bkly 3262W	3 Agr-2383 College av	Bkly 1722
Swoboda, Lydia Marie	Arbuckle	Talbot, Mira	Spokane, Wa.
4 LS-2921 Forest av	Bkly 3263	*1 LS-2627 Hearst av	Bkly 3229
Swoboda, Vera Anna	Arbuckle	Talbott Harvey Paul	Paso Robles
3 LS-2432 Oregon st	Bkly 1594J	1 LS-2309A Bancroft way	Bkly 7461
Swope, Maude Ellen	Berkeley	Taliaferro, Eugene Albert	San Francisco
4 LS-2417 Bancroft way	Bkly 1445	*1 LS PreL-307 Chemistry bldg, Campus	Vallejo
Sydenham, Clark Lamb	Sacramento	Talley, Wesley Andres	
*1s LS PreM-2214 Dana st	Bkly 1160	1 LS PreA-2215 Atherton st	
Sydenham, Harold Gaslin	San Francisco		
*1s CE-St. Dunstan apts, S F	Frkn 323		

Tallon, Helen Agnes	Butte, Mont.	Taylor, John Meister	Sacramento
1 LS-2124 Center st		1 Agr-1815 Highland pl	Bkly 1682
Tamagawa, Naoshige	San Francisco	Taylor, Kenneth Gordon	Oakland
1 LS-2102 Channing way		21 LS-109 Manor dr, P	Pied 2965
Tamiesie, Kenneth Leon	Portland, Ore.	*Taylor, Laurence Wilson	Berkeley
2 Com-2628 Durant av	Bkly 4772	4 Agr-2525 Cedar st	Bkly 5278
Tan, Tennyson	Oakland	Taylor, Leo Elzezer	San Jose
1 LS-814 Arlington st, O		8 LS PreM-2521 Channing way	Bkly 9306
Tanaka, Kamenosuke	Berkeley	Taylor, Richard Thurston	Los Angeles
1 LS-2119 Channing way	Bkly 7449	2 LS PreM-2625 Hearst av	Bkly 9535
Tanner, Frances Anita	Colton	Taylor, Ruth Evelyn	Grass Valley
1 LS-1719 Euclid av	Bkly 7844J	1 Com-2519 Ellsworth st	Bkly 995J
Tanzer, Alice	Seattle, Wn.	Taylor, Stanley K.	Los Angeles
4 LS-2624 Virginia st	Bkly 8668	21 LS-2509 Parker st	Bkly 8224J
Tanzer, Muriel Kathrine	Seattle, Wn.	Taylor, Thelma Gale	Downieville
21s LS-2615 Virginia st	Bkly 1187W	1 LS-2418 College av	Bkly 4440
Tarantino, Anthony Peter	San Francisco	Taylor, Trevenen Johns	Oakland
1 LS PreM-908 Union st, S F Frkn 8702		1 LS PreM-2001 Allston way	Bkly 6710
Tarantino, Vincent Peter	San Francisco	Tays, George	Berkeley
2 LS PreM-908 Union st, S F Frkn 8702		4 Mec-2641A Channing way	Bkly 2276W
Tash, Belle	Soledad	Teague, Wendell Almont	Medford, Ore.
1 LS-1216 Curtis st	Bkly 7320J	21 Agr-2174 University av	Bkly 3067J
Tatum, Mary Louise	Berkeley	Tebbe, George Albert	Yreka
11s LS-1731 Milvia st	Bkly 5731J	1 LS PreL-2228 Dana st	Bkly 1053
Taussig, Helen Brooke	Cambridge, Mass.	Tebbe, Jessie Ellen	Yreka
(1) 8 LS-2253 Piedmont av	Bkly 5542J	2 LS-2627 Hearst av	Bkly 4009
Taves, Fritz George	Coronado	Techenten, Arthur Henry	Los Angeles
8 Com-2521 Hearst av	Bkly 708	21 Com-2432 Ellsworth av	
Taylor, Albert Eaton	San Francisco	Techenten, Dorothy	Los Angeles
1 LS PreM-225 Twenty-sixth av, S F	Pac 3470	3 LS-2421 LeConte av	Bkly 3062
	Berkeley	Tedford, Grace Minnie	Fresno
Taylor, Augusta Clara		3 LS-2119 Addison st	Bkly 5367W
3 LS-2017 Virginia st		*Teed, Mabel Utley	Stockton
Taylor, Charles Belden	Santa Monica	4 LS-2524 LeConte av	Bkly 2531
1 Chem-1516 Scenic av		Tegner, Carl E.	Santa Monica
Taylor, Charles Test	San Bernardino	8 Agr-1730 La Loma av	Bkly 8716
1 LS-Channing apts		Tehan, John Stevenson	Crockett
Taylor, Clarence Parker	Berkeley	4 LS-Crockett	Crockett 30
21 CE-2418 Woolsey st	Bkly 4120	Teisseire, Marie Jeanne	Oakland
Taylor, Ellsworth	Wilmette, Ill.	2 LS-645 Sixty-third st, O	
21 LS-2318 Telegraph av	Bkly 5964	Telford, Cynthia Van Deusen	Lompoc
Taylor, Erva Amsden	Modesto	1 LS-2955 Piedmont av	Bkly 646
(1) 4 LS-2526 Hillgass av	Bkly 6277J	Templeton, Marie	Porterville
Taylor, Eugene Dermott	Whittier	2 Com-2416 Durant av	
21 Com-2310 College av	Bkly 4126J	Ten Eyck, Leonard Corby	Hollywood
Taylor, Fay Grennell	Berkeley	21s Agr-1819 Seventh av, O	Mer 1195
1 Com-2234 Atherton st	Bkly 4647J	Tenney, Frank Whitney	San Jose
Taylor, Frank Everette	Oakland	2 LS PreL-2425 LeConte av	Bkly 4334
2 Mec-2071 Franklin st, O	Lkcd 5389	Tenney, George Clinton	San Jose
Taylor, Hazel	Santa Rosa	4 Mec-2425 LeConte av	Bkly 4334
3 LS-2218 Atherton st	Bkly 8605J	Terami, Takashi	Los Angeles
Taylor, Helen Ione	Long Beach	8 LS-1918 Francisco st	Bkly 1467
4 LS-2143 Derby st	Bkly 1867W	Terasawa, Henry Masayoshi	San Francisco
Taylor, Herbert Louis	San Bernardino	3 Com-1739 Euclid av	Bkly 6441
2 Com-1711 Euclid av	Bkly 3378	Terlaak, Heinriette Wilhelmine	
Taylor, Ileen Coma	Berkeley		Batavia, Java
2 LS-2323 Bowditch st	Bkly 1732J	1s Com-1226 Oxford st	
Taylor, James Sherrill	Fillmore	Terlaak, Pieter	Batavia, Java
3 Com-2426 Virginia st	Bkly 564	4 OE-1228 Oxford st	

- Terrass, John Milford Los Angeles
(1) 3 CE-2647 Dwight way Bkly 5831
- Terry, Agnes Lenore San Francisco
(1) 2 LS-126 Grattan st, S F Park 4919
- Terry, Elizabeth Dudley San Francisco
3 LS-2723 Durant av Bkly 9581
- Terwilliger, Guinevere E. San Francisco
2 LS-2380 College av Bkly 1803
- Tessin, Fred Frank Napa
1 Mec-2383 College av
- Thacher, Elizabeth Ojai
4 LS-2385 Piedmont av Bkly 1802
- Thanhouser, Marian Milwaukee, Wis.
1(1) 2 LS-Hotel Whitecotton Bkly 7300
- Thanhouser, Mildred L. Milwaukee, Wis.
1(1) 3 LS-Hotel Whitecotton Bkly 7300
- Tharp, Samuel Eugene Lemoore
12 Med-2400 Dana st Bkly 2888
- Thatcher, Howard Vilas Redding
1 LS-2600 Bancroft way Bkly 1901
- Thatcher, Mary Louise Berkeley
2 LS-2643 Stuart st Bkly 6247J
- Thayer, Charles Kenneth Battle Creek, Mich.
13 Com-1730 La Loma av Bkly 8716
- Thayer, Norma Marian San Francisco
3 LS-2725 Channing way Bkly 7950
- Theall, Florence Mildred Pacheco
2 LS-2037 Virginia st
- Thien, U. Soc Eagle Rock City
1(1) 2 Min-2728 Forest av
- Thiesen, Lorraine Christine San Francisco
4 Com-537 Steiner st, S F Park 6527
- Thies, Forrest Elmore Oakland
2 Com-2015 Fiftieth av, O
- Thille, Mary Elizabeth Santa Paula
11s LS-2624 Virginia st Bkly 3663
- Thom, Katharine Pasadena
12 LS-2415 Durant av Bkly 7429
- Thomas, Alfred Barnaby Hughson
11 LS PreL-2112 Durant av Bkly 7751W
- Thomas, Almira Ada Lemoore
14 LS-Oxford apts Bkly 2385W
- Thomas, Alvin Robert Piedmont
1 Com-2620 Bancroft way Bkly 8870
- Thomas, Arthur Campbell Alpaugh
11 CE-Oxford apts Bkly 6262W
- Thomas, Bert San Bernardino
1 Com-628 Thirtieth st, R Rchd 947L-2
- Thomas, Brown Alton Los Angeles
(1) 2 LS-2500 Durant av Bkly 5404W
- Thomas, Byron Henry Oakland
2 Agr-216 Myrtle st, O
- Thomas, Edith Mary Azusa
2 Com-2825 Hillegass av Bkly 2176W
- Thomas, Eleanor Caroline Ukiah
4 LS-2639 College av Bkly 5140J
- Thomas, Ferlys William Santa Cruz
3 Min-2614 Dwight way Bkly 5988
- Thomas, Genevieve Jane Orland
2 LS-2214 Dana st Bkly 1160
- Thomas, Helen Julia Jackson
3 LS-2525 Durant av Bkly 1948
- Thomas, Helen Maud Fresno
1 LS-2732 Channing way Bkly 7026
- Thomas, Henry Clifford Bonnell Berkeley
1s LS-2909 Pine av Bkly 1537J
- Thomas, Katherine Virginia Los Angeles
1 LS-1535 Euclid av Bkly 4554
- Thomas, Leatha Elizabeth Napa
1 LS-1484 Scenic av Bkly 8314J
- Thomas, Margaret Emma Seattle, Wa.
2 LS-Morrill apts Bkly 4812W
- Thomas, Marguerite Portland, Ore.
11 LS-2519 Ridge rd Bkly 7614
- Thomas, Mary Elizabeth San Francisco
2 LS-2709 Channing way Bkly 8528
- Thomas, Merle Malm. Idaho
11 LS-2428 Bancroft way Bkly 3034
- Thomas, Norval Duncan Ukiah
1 LS PreL-1640 Walnut st Bkly 8191J
- Thomas, Robert Montgomery Fresno
8 LS-2717 Hearst av Bkly 5770
- Thomas, Samuel Alvin Alpaugh
13 CE-Oxford apts Bkly 2385W
- Thomets, James Anthony Los Angeles
3 Min-2008 Shattuck av Bkly 5135
- Thoming, Thelma Lena Crows Landing
4 LS-2400 Piedmont av Bkly 5324
- Thompson, Arthur Ralph Orland
2 LS-2634 Bancroft way Bkly 1276
- Thompson, Carroll Wayne Oakland
1 Com-8189 Lynde st, O Frl 1641
- Thompson, Donald Scougall San Francisco
2 Com-1859 Vallejo st, S F Frl 1146
- Thompson, Dorothy Evelyn Oakland
11 LS-234 Ridgeway av, O Pied 3026J
- Thompson, Elizabeth Ellen Oakland
12 LS-2968 Linden av Bkly 2910W
- Thompson, Elmer Oluf Berkeley
4 Mec-2226 Haste st Bkly 4227W
- Thompson, Evelyn Louise Oakland
2 LS-3428 Market st, O Pied 3865J
- Thompson, Frances Berkeley
(1) 4 LS-2925 Regent st Bkly 5011J
- Thompson, Fulton Sanger
1 Com-2411 Durant av Bkly 9071
- Thompson, Harold Edward Oakland
1s Mec-3104 Grove st, O Pied 2002W
- Thompson, Harry Smith Sacramento
11 Com-2406 Bancroft way Bkly 6428
- Thompson, John Henry Oakland
2 Chem-1842 Channing way Bkly 770J
- Thompson, Lloyd Alexander Oakland
1 Chem-1842 Channing way Bkly 770J
- Thompson, Louise Alone Oakland
1 LS-552 Thirty-ninth st, O Pied 3021W
- Thompson, Marjorie Elama San Diego
(1) 2 LS-1621 Scenic av Bkly 5103

- Thompson, Maud de Britteville Lihue, T. H.
 '1(1) 4 LS-2522 Webster st Bkly 6198W
- Thompson, Robert Andrew Berkeley
 2 CE-2425 LeConte av Bkly 4384
- Thompson, Robert Paul San Francisco
 1 Mec-4298 Twenty-fourth st, S F
 Men 7906
- Thompson, Rowene Ruth Willits
 2 LS-2330 College av Bkly 1803
- Thompson, Sara Alberta Modesto
 1 LS-2384 Bowditch st Bkly 1358W
- Thompson, William Harry Berkeley
 1 Com-2135 Ward st Bkly 4654J
- Thomson, Anna Jean Gilroy
 4 LS-2721 Channing way Bkly 808
- Thomson, Donald Ogle Ukiah
 '1 LS-2001 Allston way Bkly 6710
- Thorn, Marjorie Virginia San Francisco
 1 LS-165 Twenty-seventh av, S F
- Thornburg, Dwight Holbrook Los Angeles
 (1) 3s Min-1726 Euclid av Bkly 6706
- Thornburgh, Hubert Robert Berkeley
 3 Min-3009 Grove st Bkly 4191J
- Thornburgh, L. Laselle Santa Barbara
 4 LS and 1 Juris-2200 Piedmont av
 Bkly 6681
- Thorne, William Edgar Pacific Grove
 '1(1) 3 Com-Morrill apts Bkly 4812W
- Thornton, Amelia Rogers Piedmont
 2 LS-327 Highland av, P Pied 7310
- Thornton, Eileen Frances Piedmont
 2 LS-327 Highland av, P Pied 7310
- Thornton, Jessie Leigh Los Angeles
 3 LS-2739 Bancroft way Bkly 204
- Thornton, Margery Bryant Clovis
 '2 LS-2627 Ashby av
- Thornton, Wayne Hollis Berkeley
 '1 LS-1911 Bancroft way Bkly 1753W
- Thornton, William McCarthy Fresno
 2 LS PreL-2405 Fulton st Bkly 8525W
- Thorpe, Margaret Julia Oakland
 1 LS-1250 Twenty-ninth av, O
 Frvl 1646W
- Thorpe, Milton William, Jr. Alameda
 2 LS PreM-1177 Regent st, A
- Thorntenson, Martin Theodore Reedley
 1 Agr-2420 Channing way Bkly 7404W
- Thorwaldson, Ellis Oliver Fresno
 '2 Agr-4103 Emerald av, O Pied 8348J
- Thrall, Iskah R. Pasadena
 3 LS-2520 Ridge rd Bkly 5845W
- Thrasher, William Bradbury Concord
 2 Mec-Concord Concord 118W
- Threlkeld, John Handlin San Francisco
 1 Chem-2529 Hearst av Bkly 40
- Threlkeld, Joy A. Los Angeles
 '3 LS PreM-2332 College av Bkly 1134
- Thrum, Eleanor Sisson Hilo, T. H.
 3 LS-2732 Channing way Bkly 7026
- Thuesen, Martin Clarence Fowler
 1 LS PreL-2709 Dwight way Bkly 736W
- Thum, William Clark Pasadena
 (1) 2 Mec-2240 Telegraph av
- Thumann, Rudolph Clarence Oakland
 1 LS PreL-3401 Peralta st, O
 Pied 7682
- Thunen, Charles Albert Oakland
 1 Chem-5766 Broadway, O
- Thurber, Evangeline Whitmore Pullman, Wn.
 3 LS-2617 Haste st Bkly 2965J
- Thurston, Kendall Field Los Angeles
 2 LS-2713 Haste st Bkly 78
- Tichenor, Austin Pringle Alameda
 '1 LS-1717 Dayton av, A Ala 6
- Tiffany, Edwin Preston Hollister
 3 Agr-University Farm, Davis
- Tiffany, Eugene Algernon La Grange, Ill.
 '1 Com-809 Indian Rock av Bkly 4264
- Tiffany, Ruth Abigail Hollister
 2 Com-2519 Ridge rd Bkly 7614
- Tilden, Catherine Annette Hollywood
 '1 LS-2630 College av Bkly 8826
- *Tilden, Charles Lee, Jr. Alameda
 4 LS-2380 Telegraph av Bkly 4429
- Tilden, Dorothy May Berkeley
 '1 LS-2617 Virginia st
- Tilley, Walker Boutelle Arcata
 '1s LS-2601 Piedmont av Bkly 4529J
- *Tilton, Marion San Bernardino
 4 LS-2335 Warring st Bkly 6744
- Tinker, Virginia Maurine Santa Barbara
 '1 LS-2526 Hilgard av Bkly 1441
- Tinkham, John Howard Los Angeles
 2 Min-2532 Hillegass av Bkly 561J
- Tinning, Margaret Porter Martinez
 3 LS-2723 Durant av
- Tipton, Thelma Marysville
 3 LS-2647 Regent st Bkly 2579W
- Tirol, Leon Hontiveros Manila, P. I.
 '1 LS PreM-1810 Union st, S F
- Tisné, Roland David San Francisco
 (1) 3 Mec-2231 Shattuck av
 Bkly 3174W
- Tissot, Alden Francis Cleveland, Ohio
 (1) 4 Agr-2248 Telegraph av Bkly 9011
- Titcomb, Harville Holm Concord
 2 LS-2333 College av Bkly 1722
- Titus, Virginia Alice Los Angeles
 4 LS-2749 Dwight way Bkly 6444

- Tobey, Frances Clayton Pueblo, Colo.
1 LS-2520 Virginia st Bkly 7247
- Tobias, Arthur Stanley San Francisco
3 Com-11½ Panoramic way Bkly 6966W
- Tobias, David Henry San Francisco
1s LS-11½ Panoramic way Bkly 6966W
- Tobin, Mary Helen Stockton
2 LS-2721 Channing way Bkly 808
- Tobriner, Janice Meredith Oakland
11 LS-Peralta apts, O Oakd 9167
- Todd, Dorothy Berkeley
12 LS-2732 Channing way Bkly 9317
- Todd, Erma Arline Los Molinos
21 LS-6465 Chabot rd, O
- Todd, Irene Miriam Live Oak
1 LS-2526 Hilgard av Bkly 1441
- Todd, Theodosia Piedmont
4 Agr-2527 Hearst av Bkly 765
- Toewa, Louise Gertrude Coronado
4 LS-1232 Spruce st Bkly 3580J
- Togasaki, Kiyoshi San Francisco
4 Com-1714 Hearst av Bkly 1926J
- Tollis, Benjamin James Sydney, Australia
(1) 4 Agr-1216 Fulton st, S F West 5507
- Tomasulo, Titus Paul San Francisco
21 LS PreM-1709 Stockton st, S F
- Tompkins, Helen Arnoldette Sunnyvale
4 LS-2629 Haste st Bkly 3287
- Tomsen, Mary Margueritte Berkeley
1(1) 3 LS-1840 Berryman st Bkly 7999W
- Tomwe, Emma Catherine Berkeley
3 LS-1803 McGee av
- Toney, Charles Los Angeles
(1) 2 LS-2601 Channing way Bkly 5904
- Tong, Chia Hsuan Shanghai, China
1 Com-2600 Hilgard av Bkly 5747
- Tong, James Yan Berkeley
21s LS-1917 Addison st Bkly 5779W
- Tonkon, Isadore Edward M. Portland, Ore.
1 LS-2630 Bancroft way Bkly 4488J
- Toomey, Irving Francis Fresno
3 Mec-2426 Virginia st Bkly 564
- Toone, Lucille Myriam Berkeley
2 LS-1624 Walnut st Bkly 2331J
- Toor, Herbert Everett Berkeley
2 Mec-1411 Divisadera st, S F
- Topel, Maximillian Leo Bozeman, Mont.
3 Com-2527 Ridge rd Bkly 6107
- Topham, Ethel Elizabeth San Francisco
2 LS-2629 Haste st Bkly 3287
- Topham, Lois Jessie Lindsay
2 LS-2330 College av Bkly 1803
- Topham, Wellman Henry Lindsay
12 Mec-2618 Durant av Bkly 2765
- Topping, Constance Margaret Berkeley
3 LS-2900 Benvenue av Bkly 1832W
- Topping, Howard Franklin Richmond
2 CE-54 West Scenic av, R Rehd 583J
- Toriggino, Rinaldo Louis San Francisco
21 LS-538 Green st, S F Dgls 1650
- Tormey, Gertrude Josephine Spokane, Wn.
(1) 2 LS-2732 Channing way Bkly 7026
- Tornquist, Inez Cecelia Pasadena
8 LS-1632 Spruce st Bkly 570J
- Torre, Emile David San Francisco
3 LS PreM-1864 Stockton st, S F Grfld 319
- Torrieri, Theresa San Francisco
21 LS-588 Chestnut st, S F
- Torson, Martha A. Berkeley
1 LS PreL-1708 Oregon st Bkly 6577J
- Toscano, Anthony Paul Los Banos
1 LS-1628 Walnut st
- Touraine, Esther Albertine Berkeley
3 LS-1728 Milvia st Bkly 5744J
- Toussaint, Jules Emil Berkeley
2 Mec-Box 319, R F D 1 Bkly 9411J5
- Tovaraz, Anna Jeanne San Francisco
12 Com-1763 McAllister st, S F Flmr 2969
- Towle, Charlotte Elizabeth Fallon, Nev.
1 LS-2429 Channing way Bkly 4648
- Towle, Georgea Berkeley
1 LS-2731 Webster st Bkly 978W
- Towle, Katherine Amelia Berkeley
4 LS-2723 Durant av Bkly 9531
- Townes, William Darrel Orosi
12 LS-724 Fourteenth st, O
- Townend, Beatrice Evelyn S. Weed
1 LS PreM-2519 Ridge rd Bkly 7614
- Townsend, Calvin Kirk Berkeley
1 Agr-2001 Allston way Bkly 6710
- Towt, Louis Van Salinas
1 Agr-2314 Dwight way
- Trabue, Alma Red Bluff
(1) 3 LS-2305 Bancroft way Bkly 7461
- Tracie, Ross Gordon Redding
4 Min-2523 Dwight way Bkly 1027J
- Tracy, Marjorie Clarissa Hollywood
2 LS-2401 Hilgard av
- Traphagen, Geraldine Eudora Alameda
1s LS-2037 Alameda av, A Ala 303
- Trapp, Hazel Mildred Los Angeles
4 LS-2318 Telegraph av Bkly 5964
- Trautner, Rudolph Karl San Francisco
12 LS PreM-627 Fourth av, S F Pac 465
- Traylor, Virginia Santa Monica
1 LS-2627 Hearst av Bkly 3229
- Traynor, Roger John Park City, Utah
1 LS PreL-2415 Bowditch st Bkly 8650J
- Treadwell, Earl Francis San Francisco
1 LS PreL-2401 Durant av
- Treat, Van Allen Sausalito
1 Chem-1664 Larkin st, S F Pspt 6820
- Trefts, Anita Barbara Newman
1 LS-2524 LeConte av
- Trelease, Richard Mitchell Berkeley
2 LS-2516 Dana st Bkly 3704J

- Trenchard, John Oakland
1 Min-5705 Shafter av, O Pied 1455
- Trenque, Marie San Francisco
21s LS-2214 Dana st Bkly 1160
- Trescher, Ferdinand George Berkeley
4 Min-1831 Blake st Bkly 3035W
- Trevor, Helen Ada Berkeley
1s LS-2436 Oregon st Bkly 2945J
- Trewren, Ethel P. Oakland
11 LS PreM-672 Sixty-first st, O Pied 7369W
- Treyer, Theodore John Oakland
1 Chem-846 Fifty-second st, O Pied 1055
- Trieb, Carl Frederick Berkeley
(1) 2 LS-2214 Derby st Bkly 1889W
- Trieb, Martin Herman Los Angeles
8s LS PreM-2214 Derby st Bkly 1889W
- Trinidad, Mabel Irene Madera
3 LS-2249 Fulton st Bkly 3583
- Triplett, Florence Marguerite Ceres
21 LS-1922 Home st Berkeley
- Troiel, Marie Berkeley
1 LS-2820 Grove st Oakland
- Troutt, George Charles Oakland
1 Com-278 Wayne av, O Pied 1055
- Trowbridge, Charles C., Jr. San Francisco
3 LS PreM-2717 Hearst av Bkly 5770
- Trowbridge, Miriam San Francisco
2 LS-2710 Channing way Bkly 9520
- Trowbridge, Spencer Raker Bandon, Ore.
21 Min-2315 Dwight way Bkly 4026
- Trudgen, Anna Geneva Martinez
1 Com-2151 Center st San Bernardino
- Truscott, Earl Frank San Bernardino
1 Com-2425 Hilgard av Bkly 522W
- Trussell, Bernice Aileen Sacramento
4 LS-2406 Bancroft way Bkly 6428
- Trussell, Rhodes Escondido
2 Agr-1711 Euclid av Bkly 3378
- Tryon, Thomas Ellsworth Stockton
2 Com-2401 Durant av Bkly 6504
- Tsang, Henry Philip Los Angeles
22 Mec-2621 LeConte av Berkeley
- Tse, Ying Ming Berkeley
13 LS-1927 Addison st Ffoochow, China
- Tsen, Yu Seng Ffoochow, China
4 LS-2600 Etna st Bkly 7593
- Tsitsilios, Panos George Beirut, Syria
3 Agr-University Farm, Davis San Francisco
- Tsukamoto, Joseph San Francisco
3 Mec-3500 Twenty-third st, S F Msn 638
- Tuchock, Wanda R. Pueblo, Colo.
4 LS-2338 Channing way San Francisco
- Tucker, Antoinette San Francisco
2 LS-2725 Channing way Bkly 7950
- Tucker, Harold Miles Sacramento
2 LS-2529 Hearst av Bkly 40
- Tucker, Harry Howard San Pedro
4 LS-2302 Dwight way Bkly 1141
- Tucker, Urban Neville Marysville
2 LS-1017 Santa Fe av Stockton
- Tuggle, Julia Lawrence Stockton
11 LS-Hotel Whitecotton Bkly 7300
- Tulloch, Kenneth Donald Pendleton, Ore.
1 LS-2617 College av Bkly 4211J
- tum Suden, Caroline San Francisco
(1) 2 LS-2731 Regent st Bkly 2075
- Tung, Teng Shan Shansi, China
2 Min-2138 Center st Bkly 2268W
- Tunnicliffe, Lillah Oakland
4 LS-1727 Castro st, O Oakd 3443
- Tupper, Donald Lewis Fresno
3 Com-2529 Hearst av Bkly 40
- Tupper, Sidney Johnson Fresno
3 LS and 1 Juris-2529 Hearst av Bkly 40
- Turner, Alice Lee Oakland
1 LS-255 Ridgeway av, O Pied 5304
- Turner, Carl Edmund Acampo
2 LS-2600 Bancroft way Bkly 1901
- Turner, Clyde Wilbur Sacramento
1 Com-4140 Gilbert st, O Pied 8238J
- Turner, Edgar Dinsmore, Jr. Isleton
2 LS PreL-2647 Durant av Bkly 102
- Turner, Evelyn Fay Sacramento
1 LS-2421 LeConte av Bkly 3062
- Turner, James Henry San Francisco
1 Mec-3536 Twenty-second st, S F Valen 3100
- Turner, Marion Jean Arcata
(1) 3 LS-2618 College av Bkly 5118W
- Turner, Marjorie Berkeley
2 LS-2517 Benvenue av Bkly 3142W
- Turner, Merle Yountville
1 Chem-1006 Bristol st Oakland
- Turner, Minerva Elizabeth Oakland
4 LS-921 Adeline st, O Oakd 8138
- Turner, Nellie Were Oakland
1s LS-2940 Telegraph av, O Oakd 9045
- Turner, R. Andrée San Francisco
2 LS-2564 Regal rd San Francisco
- Turner, R. Elizabeth San Francisco
2 LS-2564 Regal rd Charles City, Iowa
- Turner, Ruth Charles City, Iowa
21 LS-Oxford apts Bkly 9326J
- Turner, Ruth Ellen Oakland
2 Com-921 Adeline st, O Oakd 8138
- Turner, Shannon Cecil Santa Rosa
1 LS PreL-1628 Spruce st Berkeley
- Tusch, Irene Berkeley
1 LS PreM-2211 Union st Bkly 3233W
- Tuthill, Dorothy Ila Los Angeles
4 LS-2728 Durant av Bkly 9531
- Tuthill, Margaret Isabel Los Angeles
1 LS PreM-1621 Scenic av Bkly 5102
- Tuttle, Frank William Coldwater, Mich.
1 Com-2320 Bancroft way Oakland
- Tuttle, Margaret Oakland
1 LS-556 Sycamore st, O Oakd 5260

- Tweedt, Lloyd Milton Kalispell, Mont.
1 LS-4084 Piedmont av, O
- Tyler, Agnes Julia Sacramento
1 LS-2526 Hilgard av Bkly 1441
- Tyler, Ruth Margaret Chico
(1) 2 LS-2328 Bowditch st Bkly 2152W
- Tyng, Merl Joseph San Francisco
1 OE-322 Falcon av, S F Valen 1808
- Tyrrell, Eleanora Marie Berkeley
4 LS-1743 Virginia st Bkly 5425J
- Tyson, Errett McDonald Pomona
1s LS-2305 Bancroft way Bkly 7461
- Tyson, Rex John San Francisco
1 Com-537 Steiner st, S F Park 6527
- Ufkes, Jennette Silvia Princeton
(1) 2 LS-2 Vicente rd Bkly 1284J
- Ufkes, Jessie D. Princeton
(1) 2 Agr-244 Alvarado rd Bkly 1284W
- Uhl, Edwin Howard Vacaville
14 LS-2412 Piedmont av Bkly 5098
- Uhrig, Richard V. Los Angeles
1(1) 4 Mec-1808A Shattuck av
- Uman, Dorothy San Francisco
2 LS-178 Commonwealth av, S F Pac 33
- Ulrey, Alta Naida King City
4 LS-1623 LeRoy av Bkly 2128J
- Ulrich, Francis Stephen Berkeley
1 Agr-3030 Hillegass av Bkly 2181J
- Ulah, Earle William San Jose
1 Com-1518 Buena av Bkly 8886J
- Ulah, Emily June Martinez
1 LS-1700 Euclid av Bkly 6789
- Underwood, Anita Lois Berkeley
4 LS-2041 Francisco st Bkly 5170W
- Underwood, Marion Ruth Berkeley
1 LS-2041 Francisco st Bkly 5170W
- Underwood, Retta Marie Lewiston, Idaho
1 LS-2314 Haste st Bkly 4026
- Urcia, Guillermo Colloido Magsingal, P. I.
1 LS PreM-P. O. Box 208 Bkly 1288
- Ure, Roland Walter Oakland
2 CE-415 E. Sixteenth st, O Mer 1417
- Urmston, Elizabeth South Pasadena
2 LS PreM-2723 Durant av Bkly 9531
- Urquhart, Ethel Claire Eureka
4 LS and 1 Juris-1919 Bancroft way
Bkly 6345J
- Urquiola, Jesus Alba Banga Capiz, P. I.
1 Agr-1822 University av Bkly 1283
- Ushijima, Saburo Berkeley
2 LS-2601 College av Bkly 5833
- Utchig, Harold Henry San Francisco
1 CE-1468 Ninth av, S F Snt 2014
- Utziinger, Lucille San Luis Obispo
8 LS-2221 Bancroft way Bkly 4647W
- Uyeyama, Kiyo Berkeley
2 Com-1501 McGee av Bkly 7993W
- Vadney, Marie Abbie Chico
1 Com-2542 Durant av Bkly 1364
- Valentine, Enid Leicester Mill Valley
1 LS-Mill Valley
- Valentine, Gwendolyn Nino Portland, Ore.
1 LS-2714 Prince st Bkly 2608W
- Valenzuela, Juan Fort Collins, Colo.
3 Agr-Cloyne court Bkly 4710
- Valenzuela, Raquel Santiago, Chili
1 LS PreA-Cloyne court Bkly 4710
- Valenzuela, Sibila Couckaga Santiago, Chile
1s LS-Cloyne court Bkly 4710
- Vallow, Cecil Colby Tulare
3 LS-1742 Blake st
- Vallow, George Henry Berkeley
1 LS-1742 Blake st
- Van Arminge, Edwin Verne Oakland
3 Chem-8565 Dimond av. O Frel 252J
- Van Aradell, Sadie Mae Oakland
2 LS-2400 Piedmont av Bkly 5224
- Van Brunt Hildegard Alameda
18 LS-1724 Alameda av, A Ala 1111
- Van Buuren, Anton John Batavia, Java
2 Com-2416 Stuart st Bkly 7513W
- Van Buuren, Johan J. G. Batavia, Java
1 Com-2416 Stuart st
- Vance, Alva James, Jr. Oakland
(1) 3 LS-2607 Hearst av Bkly 5913
- Vance, Benlah Drew Placerville
1 LS-2403 Telegraph av Bkly 1051
- Vance, James B. Los Angeles
3 Agr-2413 Telegraph av
- Vance, James Travis Fullerton
3 LS PreM-2248 Bancroft way Bkly 9011
- Vandegrift, Margaret Bickford Chico
3 LS-2502 Bancroft way Bkly 1848
- Van den Brandeler, Ernest Jacob Welft, Holland
1(1) 2 Min-2530 Hilgard av Bkly 7771J
- Vanderburg, Lyall Clyman Modern
1 LS-1457 Jackson st, O Oakd 2075
- Vandergaw, Ida Oakland
18 LS-1109 Oak st, O Lknd 4633
- Vander Leek, Hallock San Juan Capistrano
2 LS-1815 Highland pl Bkly 1682
- van der Merwe, Hercules Jacobus Bethlehem, South Africa
1 Agr-2203 Atherton st
- Vander Naillen, Gladys Marie Oakland
12 LS PreL-6008 Ocean View dr, O
Pied 6768

- Van Duyn, Otto San Francisco
 1 LS PreM-272 Noe st, S F
- Van Eaton, Myrtis Mai Sacramento
 (1) 2 LS-2220 Union st Bkly 8469W
- Van Etten, Albert Henry Long Beach
 *1 LS PreM-2529 College av Bkly 7875W
- Van Gorden, Durward Oakland
 *1 LS PreL-469 Van Buren st, O
 Oakd 2498
- Van Haren, Leda Berkeley
 *1 LS-2415 Hilgard av Bkly 2098J
- Van Horn, Paul Beverley Oakland
 8 LS-1551 Madison st, O Lksd 1788
- Van Matre, Ernestine Anita Minersville
 1 LS-Escondido and Alameda avs
 Bkly 4599
- Van Nostrand, Randolph Berkeley
 3 Com-2001 Allston way Bkly 6710
- Van Rensselaer, James Taylor Fallbrook
 1 LS-1829 Arch st Bkly 8385J
- Van Rensselaer, Maunsell Fallbrook
 *1 Agr-1829 Arch st Bkly 8385J
- Van Riper, Allen Ernest Newcastle
 4 LS-2627 Ridge rd Bkyl 2541
- Van Riper, Charles Augustus Berkeley
 3 Agr-1120 Euclid av Bkly 8068J
- Van Sant, Merritt Eugene Los Angeles
 1 Agr-2330 Telegraph av Bkly 9227
- Van Sittert, Marjorie Los Angeles
 1 LS-2435 Hilgard av Bkly 6404
- Van Stan, Robert Wilder Alameda
 2 Mec-1321 Weber st, A Ala 1365
- Van Strum, Kenneth Stevens Berkeley
 3 Com-2542 Haste st Bkly 4334
- Van Vleet, Ferne Lucille Fresno
 4 LS-2624 Virginia st Bkly 8663
- Van Vranken, Dorothy O. Oakland
 8 LS-2329 Tenth av, O Mer 4346
- Van Vranken, Leslie Oakland
 1 Min-2329 Tenth av, O Mer 4346
- Van Wagenen, Dorothy Dewey Los Angeles
 1 Agr-1259 Euclid av
- Van Winkle, June Louise Berkeley
 3 LS-2511 Hillegass av Bkly 8688J
- Varner, Winifred Helen Los Angeles
 *1 (1) 2 LS-2542 Durant av Bkly 1364
- Varney, Ellwood, Jr. Oakland
 2a Agr-1440 Scenic av Bkly 6965
- Vasilatos, Chrystine Maxine Calistoga
 8 LS-2411 Durant av Bkly 8071
- Vasilatos, Frances Marjorie Calistoga
 *2 LS-2411 Durant av Bkly 8071
- Vaughan, Marjorie Louise Santa Rosa
 2 LS-2732 Channing way Bkly 7026
- Vaughan, Reginald Leighton Alameda
 2 LS-2610 Durant av Bkly 7804
- Vaughan, William Edwin, Jr. Alameda
 3 LS-2610 Durant av Bkly 7804
- Vaughan, Zora Belle Turlock
 4 LS-2436 Channing way Bkly 6438W
- Vawter, Everett Frank Santa Monica
 4 Agr-University Farm, Davis
- Veall, Florence Lillian Oakland
 2 LS-960 Thirty-fifth st, O Pied 8355
- Vecki, Morrell Emeric San Francisco
 *4 LS and 1 Med-312 Arguello blvd, S F
 Pac 2394
- Vega, Marcos A. Cabugas, Ilocos Sur, P. I.
 *3 LS-P. O. Box 208 Bkly 1283
- Veness, Harold Charles Salt Lake City, Utah
 *1 Com-1875 Sacramento st, S F
 Frkn 9015
- Vennum, Ruby Martha Hollywood
 (1) 3 LS-2624 Virginia st Bkly 8663
- *Ver, Leon Foronda Manila, P. I.
 4 LS-1822 University av Bkly 1283
- Vercelli, Josephine Boero Oakland
 *2 LS-396 Forty-ninth st, O Pied 2452W
- Vercelli, Teresa Messana Oakland
 1a LS-1406 Hawthorne ter Bkly 6116J
- Verney, Stanley Savage San Francisco
 8 Mec-42 Langton st, S F Mrkt 9222
- Vernon, Earl Sanger
 1 Com-2411 Durant av Bkly 3071
- *Vernon, Vada Viola Berkeley
 4 LS-2726 Telegraph av Bkly 8492J
- Vernon, Zoe Pauline Berkeley
 2 LS-2900 Russell st Bkly 1382J
- Verrue, Aline Pasadena
 4 LS-2421 LeConte av Bkly 8062
- Verwoert, Herman Carel San Francisco
 1 LS PreA-110 Sixth av, S F Pac 7712
- Vesper, Karl Conrad Alameda
 2 Mec-1839 Bay st, A Ala 1666
- Viault, Harold Max Mesa, Ariz.
 1 Com-2412 Piedmont av Bkly 5098
- Vicars, Maile Lillian Hilo, T. H.
 1 LS-2725 Channing way Bkly 7950
- Viebrock, Francis More Stockton
 2 LS-2625 Hearst av Bkly 9535
- Vieira, Frank G. Stockton
 2 LS PreM-1640 Euclid av
- Vietti, William Victor National City
 2 Chem-2328 Channing way Bkly 2004
- Vilen, Della Alina Berkeley
 1 Com-1529 Euclid av Bkly 8049J
- Villain, Gerald Nelson San Francisco
 *1 LS PreM-1 San Rafael way, S F
 Snt 3389
- Villalpando, Helen Oakland
 3 LS-5439 Miles av, O Pied 5838
- Vincent, Clarence Homer Oakland
 *2 Com-312 Olive av, O Pied 1376J
- Vincent, Eric Thomas Berkeley
 1 Min-1330 Oxford st
- Vinje, David Selmar Bottineau, N. Dak.
 (1) 3 Com-2226 Chapel st Bkly 6509J

- Vint, Thomas Chalmers Los Angeles
3 Agr-2109 Shattuck av Bkly 9310
Vinton, Richard Spencer Los Angeles
1 CE-2382 Durant av
Vitkovsky, George Nicholas Petrograd, Russia
(1) 3 Min-2533 Channing way Bkly 6201J
- Vizzard, William Raymond San Francisco
2 LS PreM-174 Ninth av, S F Pac 5841
Vogel, Carlos Edward San Francisco
1 LS-2900 Vallejo st, S F West 721
Voiles, Jane Zerga Oakland
2s LS-1305 Adeline st, O Lksd 3047
Volberg, Weston Fay Alameda
4 LS-645 Santa Clara av, A Ala 1782W
*von Adelung, Edward Borland Oakland
4 LS and 1 Med-407 Twenty-ninth st, O
Oakd 4651
- von Detten, Harold Joseph Stockton
4 LS-2345 College av Bkly 62
Von Gruemige, Ernest Atesia
2 Chem-2418 Ellsworth st
- Von Herzen, Ellen Hollywood
2(1) 3 LS-2525 College av Bkly 9572W
von Husen, Fred J. San Francisco
3 Com-1103 Stanyan st, S F Mrkt 7524
von Phul, William, Jr. San Francisco
1 CE-2998 Pacific av, S F Flmr 1755
von Schoen, Doris Gertrude Alameda
3 LS-2401 Telegraph av Bkly 5626
von Seggern, Anna Adeline Escondido
1 LS-2524 Dwight way Bkly 8789J
von Soosten, Hilda Ann Salinas
3 LS-1762 Bushnell pl
von Tagen, Phyllis Amelia Alameda
1 LS-1260 Hawthorne st, A Ala 3302W
Voorhes, Sol Watson Seattle, Wn.
2(1) 2 CE-2646 Dwight way Bkly 4104
Vorbe, Georges Ephraim San Francisco
1 CE-454 Fair Oaks st, S F
Vorheis, Charles Ray Oakland
21 LS-1410 Everett av, O Mer 2884
Vrettos, Athena Elizabeth Oakland
1 LS-202 Mather st, O Oakd 2850J
Vucosavlievich, Mechiel Voyne San Francisco
3 LS PreL-1230 Leavenworth st, S F
Pspt 2083
- Vucoslavie, Stefan Sidney San Francisco
1 LS-1230 Leavenworth st, S F
Pspt 2083
Wade, Charlotte May Berkeley
1 LS-2400 Durant av Bkly 7954
Wade, Elizabeth Amey Los Angeles
4 LS-1547 Euclid av Bkly 6681
Wade, Wilson Okeley Los Angeles
21 Chem-1912 Haste st
Wadsworth, Louisa Laretta Beswick
1 LS-2627 Hearst av Bkly 4009
- Waggoner, Samuel Tomphyns San Jacinto
1 Com-1086 Forty-first st, O
Waggonner, Lela Estella Ontario
3 LS-2250 Fulton st Bkly 8284
Wagner, Eltrude Margarethe San Francisco
1 LS-2280 Howard st, S F Man 4129
Wagner, Frances Mitchell Los Angeles
(1) 2 LS-2627 Hearst av Bkly 4009
Wagner, Karl Hollywood
4 Agr-2039 Shattuck av Bkly 4929
Wagner, Vincent Edward San Jose
1 LS PreM-2550 Haste st Bkly 945W
Wagy, Julian Redmond Bakersfield
4 LS-2717 Hearst av Bkly 5770
Waid, Catherine Teese Fresno
1 LS-2261 Shattuck av Bkly 7233W
Waid, Robert Teese Fresno
1 LS-2261 Shattuck av Bkly 7233W
Wakefield, Carl C. Beverly Hills
2 LS PreL-2412 Piedmont av
Wakefield, John Myron Ione
2 LS PreM-2412 Piedmont av
Wakefield, Leland Emerson Ione
1 Com-2527 Ridge rd Bkly 5098
Wakefield, Sam Bell Oakland
21 LS PreL-Hotel Oakland, O Lksd 100
Waldeck, Louis Herman San Francisco
3 Chem-2436 Durant av Bkly 6653W
Walden, Louise Brickell Alameda
2 LS-2129 San Antonio av, A Ala 492
*Walder, James Joseph Los Angeles
4 Min-2202 Durant av Bkly 231
Waldman, Myrle Zella Riverside
4 LS-1550 La Loma av Bkly 7516
Waldner, George Anderson Eureka
21 LS-2333 College av Bkly 1722
Waldron, Bessie G. Piedmont
4 LS-220 Hillside av, P Pied 585W
Wale, George San Francisco
14 LS-2647 Dwight way
Wales, William Leland Newark
1 Agr-2201 Harrison st, O Lksd 1032
Walker, Albert Truicano Oakland
21s LS PreM-4132 Gilbert st, O
Pied 2474J
Walker, Annie Titcomb Paia, T. H.
3 LS-2119 Addison st Bkly 3128W
Walker, Benjamin Franklin Fresno
1 Agr-2600 Durant av Bkly 1731W
Walker, Dean McLaughlin Willows
1 Med-2625 Hearst av Bkly 9535
Walker, Dorothy Helen Los Angeles
21 LS-546 Thirtieth st, O Oakd 5079
Walker, Joe Ed Richmond
2 LS PreM-131 Tenth st, R
Walker, John Henry Berkeley
3s LS-2216 Channing way Bkly 5631
Walker, Leona Willows
2 LS-1547 Euclid av Bkly 6681

- Walker, Lesley Clare Oakland
4 LS-251 Santa Rosa av, O Pied 8874W
- Walker, Lillie May Oakland
2 LS-2057 Eighty-third av, O Elm 337
- Walker, Lois Vivian Berkeley
4 LS-2731 Benvenue av Bkly 2046W
- Walker, Loyd Harold Oakland
3 Com-836 Fifty-third st, O Pied 6633W
- Walker, Lydia Belle Tulare
2 LS-2542 Durant av Bkly 1364
- Walker, Mansie Geneva San Francisco
3 LS-1271 California st, S F Pspt 2150
- Walker, Randolph Charles Oakland
2 LS-2345 College av Bkly 62
- Wallace, Dorothy Ellis Berkeley
1 LS-1340 Arch st Bkly 1078
- Wallace, Fred Place Bozeman, Mont.
(1) 4 Com-2231 Shattuck av
- Wallace, Geneve Salt Lake City, Utah
4 LS-2229 Chapel st Bkly 1642
- Wallace, Helen Mar San Francisco
1 LS-2229 Chapel st Bkly 1642
- Wallace, Irene Deseray Alameda
2 LS-1550 La Loma av Bkly 7516
- Wallace, Leontine Berkeley
3 LS-1340 Arch st Bkly 1078
- Wallace, Wilber Morton Berkeley
1 Min-2821 Hillegass av Bkly 8839W
- Wallace, William Edwin San Francisco
2 Com-2229 Chapel st Bkly 1642
- Waller, Earl Neal San Bernardino
1 Com-2520 Durant av Bkly 1675
- Walsh, Donald Ernest Oakland
2 LS-2522 Ridge rd Bkly 5950
- Walsh, Kenneth Oakland
3 LS-2522 Ridge rd Bkly 5950
- Walsh, Sheldon Guy East Auburn
1 Agr-2627 Ridge rd Bkly 2541
- Walter, Katherine Achsah Oakland
(1) 3 LS-808 Lerida st, O Oakd 2100
- Walters, Arthur Carl Corte Madera
3 Mec-1641 Oxford st Bkly 6641J
- Walters, Bert All San Francisco
1 Agr-1801 Polk st, S F Frkn 2569
- Walters, Elsa Annetta Redondo Beach
1 LS-2417 LeConte av Bkly 5650
- Walters, Marie Elizabeth Independence
2 LS-2122 Hearst av
- Walther, Thelma Frances San Francisco
3 LS-1700 Euclid av Bkly 6789
- Walton, Albion William Los Angeles
2(1) 4 LS Prel-2907 Claremont av Bkly 9463W
- Walton, Dorothy Elizabeth Pasadena
1 Chem-2421 Durant av Bkly 6394W
- Walton, Elizabeth Tess Kansas City, Mo.
(1) 3 LS-2714 Ridge rd Bkly 9093
- Walton, Joseph Harlan Berkeley
1 Com-2515 Buena Vista way
- Waltz, Henry Washington, Jr. Sonoma
3 LS-2234 Atherton st Bkly 4647J
- Wan, Ching Shanghai, China
2 Mec-2600 Etna st Bkly 7593
- Wand, Preston Beale San Francisco
4 LS-2409 Bowditch st Bkly 8437J
- Wang, Cho Kaifeng, China
2 Agr-2600 Etna st Bkly 7593
- Wang, Li Zan Honan, China
2 CE-2407 Fulton st Bkly 8885W
- Wann, Wilbur Lewis Porterville
1 Mec-1560 LeRoy av Bkly 6866W
- Ward, Alice Louise Montalvo
2 LS-2531 Ridge rd Bkly 7066
- Ward, Annie Jane Alameda
2 LS-2814 Van Buren st, A Ala 2633
- Ward, Beatrice Chandler Los Angeles
1 LS-2723 Durant av Bkly 9531
- Ward, Daisy Modesto
2 LS-2429 Channing way Bkly 4648
- Ward, Elsie Leona Montalvo
1 LS-2531 Ridge rd Bkly 7066
- Ward, Harvey Klaus Berkeley
2 LS-2809 Fulton st Bkly 8954W
- Ward, Henry Morgan New York, N. Y.
1 LS-1151 Oxford st Bkly 6958J
- Ward, Julia English Los Angeles
1 LS-2515 LeConte av Bkly 4561
- Ward, Katherine Chandler Los Angeles
3 LS-2723 Durant av Bkly 9531
- Ward, Katherine Deliah St. Louis, Mo.
4 Com-2815 Dwight way Bkly 4026
- Ward, Leonard Risdon Kerman
4 Agr-University Farm, Davis
- Ward, Marjorie Santa Cruz
4 LS-2511 Durant av Bkly 1762W
- *Ward, Robertson Los Angeles
4 LS and 1 Med-2601 Channing way Bkly 5904
- Wardman, Emily Alhambra
(1) 2 Agr-2417 LeConte av Bkly 5650
- Wardman, Mariquita Alhambra
(1) 2 LS-2417 LeConte av Bkly 5650
- Ware, Beulah Jane Phoenix, Ariz.
4 LS-2521 Regent st Bkly 7528J
- Warfield, Ruth Elona Healdsburg
2 LS-2739 Bancroft way Bkly 204
- Warmoth, Harold Walker Paskenta
1 Mec-2214 Union st Bkly 2483
- Warne, Joseph Everett Holtville
2 Agr-2647 Dwight way Bkly 5831

- Warne, Robert Ellis Holtville
3 Agr-University Farm, Davis
- Warner, Conrad Maupin Fresno
3 LS-2521 Hearst av Bkly 708
- Warner, Elizabeth Luella Stockton
1 LS-3085 Harper at Bkly 3040W
- Warner, Ethel Medora Snohomish, Wn.
4 LS-1825 Berkeley way Bkly 6999
- Warner, Marietta Denver, Colo.
(1) 2 LS-2814 Dwight way Bkly 9140J
- Warner, Pearl Louise Los Angeles
1 LS-1860A Scenic av
- Warner, William Loyd Los Angeles
1 LS-2507 Channing way
- Warness, Edgar Alfred Oakland
12 Mec-420 E Eleventh st, O Mer 963
- Warnken, Louise, Jr. Dixon
1 Chem-2406 Dana st
- Warr, Chester Campbell Spokane, Wn.
(1) 8 Com-1024 Mariposa av Bkly 8252W
- Warren, Edwin Guy San Francisco
1 Mec-1711 Euclid av Bkly 3878
- Warren, George Herbert Berkeley
2 Min-1610 Bonita av
- Warren, James Paul Berkeley
3 LS PreM-2615 Derby st Bkly 7915W
- Warren, Jean Hammond Mackay, Idaho
1 Com-2287 McKinley av Bkly 8784J
- Warren, Mary Obera Riverton, Wyo.
2 LS-2429 Channing way Bkly 4648
- Warren, Roy Everet Berkeley
4s LS-2646 Dwight way Bkly 4104
- Warren, Walter Moore Escondido
2 Agr-1923 Yolo av Bkly 8124W
- Warrens, C. Kenneth Portland, Ore.
2 Com-2601 Durant av Bkly 23
- Warrum, Noble Salt Lake City, Utah
3 LS PreM-2345 College av
- Washington, Lawrence Berkeley
3 Mec-2722 Bancroft way Bkly 1278
- Wasson, Paul Oakland
1 LS PreL-647 Fifty-sixth st, O Pied 3952W
- Waste, Eugenia McIntosh Berkeley
3 LS-2222 Durant av Bkly 1191
- Watanabe, George Akiji San Diego
1s Mec-1739 Euclid av
- Waterfall, Niles Louis San Francisco
1 Mec-2315 Dwight way Bkly 4026
- Waterhouse, Edward John Oakland
2 Agr-374 Jayne st, O Oakd 8065
- Waterman, Bernice Crete, Neb.
(1) 3 LS-2624 Virginia st Bkly 3663
- Waters, Alice Teresa Los Angeles
1 LS-2627 Hearst av Bkly 4009
- Waters, John Reynolds West La Fayette, Ind.
(1) 4 Agr-University Farm, Davis
- Watkins, Agnes Burnett Lodi
2 LS-2526 Hilgard av Bkly 1441
- Watkins, Eileen Martin Berkeley
3 LS-1525 Grand av, P Pied 5726J
- *Watkins, Harry Edgar San Bernardino
4 LS-1525 Grand av, O Pied 5726J
- Watson, Cynthia Atterbury Modesto
4 LS-2620 LeConte av Bkly 744W
- Watson, Donna Spaulding Oakland
3 LS-825 Adeline st, O Oakd 6539
- Watson, Elizabeth Reed Oakland
4 LS-2624 Virginia st Bkly 3663
- Watson, Ethel M. Sunnyvale
1 LS-1148 Filbert st, S F Pspt 5232
- Watson, Harold Clifford Biggs
1 LS PreL-2646 Dwight way Bkly 4104
- Watson, Lillis Modesto
2 Com-2620 LeConte av Bkly 744W
- Watson, Margaret E. Eureka
1 LS-1827 Addison st Bkly 9044J
- Watson, Martha Mabelle Berkeley
1 LS-2515 LeConte av Bkly 4561
- Watson, Robert Weir Eureka
2 LS PreM-2325 Dana st Bkly 8383W
- Watson, Romaine Elden Berkeley
1 Chem-2229 Durant av Bkly 964
- Watters, Gladys Lindsay
3 Agr-2424 S Atherton st
- Watterson, Alfred Bishop
1 CE-1829 Bonita av Bkly 2926J
- Wattles, Etna Bell Los Angeles
(1) 2 LS-2802 Woolsey st Bkly 4344
- Waugh, Charles LeRoy Albert Lodi
(1) 3 LS PreM-6455 Hillegass av, O
- Waye, Florence Lucile Berkeley
3 LS-952 Ventura av Bkly 6295W
- Weatherby, Gertrude Fannie Ogden, Utah
3 LS-2226 Chapel st Bkly 879
- Weatherston, Douglas, Jr. Los Angeles
(1) 2 Min-809 Hanover av, O Mer 4709
- Weaver, Nell Oaksford Kings City
3 LS-60 Hamilton pl, O Oakd 3441
- Webb, Aldis LeRoy Oakland
1s LS-1718 High st, O Frvl 2676W
- Webb, Clementine Irene Oakland
1 LS PreL-318 Twenty-first st, O Lkad 4309
- Webb, Edward Walter Coalinga
4 Min-2527 Ridge rd Bkly 6107
- Webber, Eleanor Parke Berkeley
1 LS-2327 Hilgard av Bkly 7938W
- Webb, Isabelle Adelaide Oakland
1 LS PreL-318 Twenty-first st, O Lkad 4309
- Webber, Irene Velda Flint, Mich.
(1) 3 LS-3034 Hillegass av Bkly 9563
- Webber, Jane Thelma San Francisco
1 LS-1840 Berryman st Bkly 7999W
- Weber, Arnold Newton Berkeley
1 LS PreL-1932 Stuart st Bkly 7022W

- Weber, Harold Irving Los Angeles
2 LS-2345 College av Bkly 62
- Weber, Mathew San Francisco
2 LS PreL-2208 Ellsworth st
- Webster, Angie H. Oakland
*1 LS-1520 Wellington av, O Mer 5530
- Webster, Margaret Bailey Oakland
1s LS-394 Orange st, O Lkcd 2320
- Webster, Philip Jenkins San Diego
2 Agr-2701 Hearst av Bkly 2421
- Wedel, Elsie Reedley
1 LS-2520 Durant av
- Weed, Marian Helen San Gabriel
4 LS-2417 LeConte av Bkly 5650
- Weed, Oliver Marian Redlands
(1) 4 LS-2527 Ridge rd Bkly 6107
- Weeks, Arline Gertrude Berkeley
4 LS-2601 Parker st Bkly 7438J
- *Weeks, Dorothy Berkeley
4 LS-2911 Regent st Bkly 2709W
- Weeks, Evelyn Berkeley
1 LS-2601 Parker st Bkly 7438J
- Wegel, Clarence Albert Fond du Lac, Wis.
*(1) 8 LS-2312 College av Bkly 893W
- Weger, Catheryne Dayton Bakersfield
2 LS-2447 Channing way Bkly 7883J
- Wegis, Herman Eugene Alameda
*1 Mec-1309 Santa Clara av, A Ala 3978
- Wehara, Hisao Ruskin Oakland
*1 Mec-629 Franklin st, O Oakd 7715
- *Wehe, Helen Berkeley
4 LS-2421 Carlton st Bkly 2065W
- Wehr, Theodore Gustav San Francisco
3 Com-1524 Hyde st, S F Frkn 3955
- Wehrly, Waldo Samuel Santa Ana
1 CE-2600 Bancroft way Bkly 1901
- Weichert, Grace Dorothy Hughson
1 Com-1609 LeRoy av Bkly 6178W
- Weichhart, Anita Louise Alameda
2 LS-1715 LeRoy av Bkly 2351
- Weihe, Ottillia Emilie Lodi
3 LS-2519 Hillegass av Bkly 477
- Weinstein, Adolph Portland, Ore.
*(1) 2 Com-2630 Bancroft way Bkly 4488J
- Weinstein, Dorothy Butte, Mont.
1 LS-2542 Durant av Bkly 1364
- Weinstein, Irving San Francisco
1 LS-331 Franklin st, S F Park 5235
- Weirick, Alexander Jones Lincoln
1 Com-2211 Bancroft way
- Weisbrod, Birdie Evelyn Denver, Colo.
1 LS-956 Post st, S F Papt 3487
- Weisbrod, Raymond Henry Los Angeles
4 LS-2601 Channing way Bkly 5904
- Weiss, Arthur Josiah San Francisco
3 Mec-2407 Dwight way Bkly 9025W
- Weiss, Karl Frederick Stockton
2 LS PreM-1631 Euclid av Bkly 9035W
- Weiss, Leslie Stewart Portland, Ore.
*1 Com-2628 Durant av Bkly 4772
- Weisse, Alma M. San Francisco
1s LS-2214 Dana st Bkly 1347
- Weibanks, Leona Estelle San Francisco
1 LS-563 Sixteenth av, S F Pac 6961
- Welch, Percy Robert Berkeley
4 LS-2201 Rose st Bkly 1944
- Welch, Russell Travers Oakland
*1 Min-2616 Virginia st Bkly 1716
- Weldon, Thomas Patrick Santa Maria
2 LS-2642 Bancroft way Bkly 653
- Welin, Arthur Axel San Diego
1 LS-2248 Telegraph av Bkly 9011
- Welin, Emmett Douglas Fullerton
3 Mec-2248 Telegraph av Bkly 9011
- Wellander, Holt Hertman Oakland
1 Chem-383 Alcatraz av, O Pied 4695W
- Weller, Marie Ouida Jackson
4 LS-2525 Durant av Bkly 1948
- Weller, Theodore Warford Warm Springs
*4 LS PreM-Euclid apts Bkly 5298J
- Wellington, Winfield Scott Los Angeles
3 LS PreA-2610 Durant av Bkly 7804
- *Wells, Carleton Gross Eureka
4 Agr-2333 College av Bkly 1722
- Wells, L. Amy Riverside
3 LS-2435 Hilgard av Bkly 6406
- Wells, Samuel Calvin Saticoy
*2 Agr-1721 Fourth av, O Mer 3768
- Wells, Whitney Hastings San Francisco
4 LS-3878 Jackson st, S F Pac 1945
- Welty, Howard Otis Oakland
(1) 8 LS-2110 Montana st, O
- Wenig, Edward Jacob Pomona
(1) 4 LS-2425 Bancroft way Bkly 1743
- Wentworth, John Edgar Pacific Grove
3 CE-2214 Union st Bkly 2483
- Wernse, Helen Mildred San Francisco
1 LS-2429 Channing way Bkly 4648
- Wertheim, David K. Great Falls, Mont.
(1) 2 Com-2400 College av Bkly 8910J
- *Wesolo, James Oakland
4 LS PreL-122 E. Eleventh st, O Mer 2289
- West, Florence Harriett Sacramento
*1 LS-2247 Bancroft way Bkly 3873
- West, Francis Edward Colfax
2 LS-2315 Dwight way Bkly 4026
- West, Francis Schafer Bakersfield
1 Mec-1362 Scenic av Bkly 2099W
- West, James San Rafael
1 LS-2713 Haste st Bkly 78
- West, Mary Hoadley San Rafael
4 LS-2723 Durant av Bkly 9531
- West, Maude Magdalen Oakland
1 LS PreL-5365 Manila av, O Pied 2500J
- West, William David Oakland
4 CE-694 Thirty-third st, O Pied 3914W

Westcott, Stanley Bey	Soledad	Whisman, Clara Jeanne	Salinas
2 Mec-2314 Dwight way		2 LS-2027 Francisco st	Bkly 4593J
Westenberg, M. Bethany	Berkeley	Whitaker, Gerald	Anaheim
4 LS-2811 Benvenue av	Bkly 7692	3 Com-1504 Marin st	Bkly 8814J
Westlund, Ellen Katarina	San Diego	Whitaker, William Lee	Piru
2 LS-2525 Durant av	Bkly 1969	1 Mec-2501 Russell st	Bkly 4072J
Westoby, Gilbert	Oakland	Whitcher, Kara Stirling	Castroville
1 Chem-678 Twenty-seventh st, O		3 LS-2429 Martinez av	Bkly 8208
Weston, Ella Capers	Quitman, Ga.	Whitcomb, Dorothy	Blythe
14 LS-308 Ohio st, R	Rchd 77	1 LS-2836 Derby st	Bkly 6906J
Weston, Nellie Mary	Los Angeles	White, Alan Richard	Claremont
1 LS-2646 Telegraph av		2 Agr-2167 Addison st	Bkly 3067
Westphal, Theodore August, Jr.	Oakland	White, Alfred Eugene	Los Angeles
2 LS PreL-1108 Eighth st, O	Oakd 6473	2 LS-5333 Locksley av, O	
Westwater, Waldo	Mt. Hamilton	White, Andrew Beaton	Fair Oaks
2 Chem-1927 Bonita av		1 Min-2214 Dana st	Bkly 1160
Wetter, Curtiss Earl	Corning	White, Arlington Chester	Fresno
3 LS PreL-2521 Channing way		3 Mec-2500 College av	Bkly 5942
	Bkly 9306	White, Beessie M.	Lewiston, Idaho
Weyse, Mary Alice	Los Angeles	2 LS-2803 Forest av	Bkly 1004W
1 LS-2632 Haste st	Bkly 1033W	White, Caryl Hardy	Los Gatos
Whaley, Percy A.	Tulare	1 LS-2530 College av	Bkly 7875J
1 Com-2320 Bancroft way		White, Edith Augusta	Dinuba
Whang, George Chin	Los Angeles	1 LS-2502 Hilgard av	Bkly 7203J
24 LS-1919 Addison st		White, Edna Anita	Oakland
Whedon, John Fielding	San Diego	1s LS-148 Ronada av, P	Pied 7758J
2 LS-2345 College av	Bkly 62	White, E. Irving	Fresno
Wheeler, Edna Beatrice	Berkeley	4 LS-2500 College av	Bkly 5943
1 LS-6279 Chabot rd, O		White, Eleanor Olmsted	Riverside
Wheeler, Ermine Brooke	Oakland	1 LS-2500 Durant av	Bkly 1381J
1 LS-492 Wickson av, O	Oakd 4298	White, Georgia Sallie	Maysville, Mo.
Wheeler, Howard True	Los Angeles	1 LS-2424 Channing way	Bkly 734W
4 Agr-University Farm, Davis		White, Gladys Amack	San Francisco
Wheeler, John Dorsey	Fresno	1 LS-2234 E Nineteenth st, O	
4 Agr-University Farm, Davis		White, Gladys Jesma	Sacramento
Wheeler, John Reed	Los Angeles	4 LS-2216 Piedmont av	
2 CE-2421 Durant av	Bkly 1503W	White, Halsted Guilford	Claremont
Wheeler, McKinley	Long Beach	1(1) 2 LS-2229 Chapel st	
4 Agr-2233 Ellsworth st	Bkly 295W	White, Harold Edward	Lewiston, Idaho
Wheeler, Ralph Kirkham	San Francisco	2 LS-138 Moss av, O	Pied 2275J
2 LS-2717 Hearst av	Bkly 5770	White, Harry Emmanuel	Oakland
Wheeler, Rey B.	Alameda	4 Mec-175 Santa Clara av, O	Oakd 8916
4 LS-2117 Central av, A	Ala 505W	White, Helen Gertrude	Berkeley
Wheeler, Robert Percer	Dinuba	2 LS-952 Shattuck av	Bkly 5125J
3 Min-2435 Haste st		White, Jack Frederick	San Rafael
Wherritt, Joseph Russell Heber City, Utah		4 LS-2620 Bancroft way	Bkly 8870
1 LS PreM-2401 Durant av	Bkly 6504	White, Julie Agnes	Sausalito
Whipple, Laura Tnane	Niles	1 LS-84 Sunshine av, Sausalito	
1 Agr-Niles	Niles 7		Sausalito 41R
Whisenant, John William	San Francisco	White, Leslie Mortimer	Pocatello, Idaho
2 LS PreM-2642 Bancroft way	Bkly 653	12 Com-2501 Ridge rd	Bkly 1835
Whisler, Donald Carlos	San Pablo	White, Lula Elsie	Riversa
1 LS-Fourth and Bush sts, San Pablo		(1) 3 LS-2417 LeConte av	Bkly 5650
Whisler, Helen Naomi	San Pablo	White, Margaret Nina	Hermiston, Ore.
4 LS-San Pablo		4 LS-2533 Durant av	Bkly 665
		White, Martha Ellis	Riverside
		4 LS-2500 Durant av	

- White, Merrill Goethe Oakland
1 LS-6465 Regent st, O Pied 461J
- White, Mildred Madeline Craftonville
4 LS-2322 Stuart st Bkly 6319W
- White, Virginia E. Berkeley
13 LS-1401 Arch st Bkly 2233
- White, Wallace William Broderick
11 Mec-2486 Durant av Bkly 6653W
- White, William Alfred Fresno
3 LS PreL-2500 College av Bkly 5942
- White, William Arthur, Jr. Lewiston, Idaho
2 LS-2717 Hearst av Bkly 5770
- Whitcotton, George Otis Berkeley
1 LS-2345 College av Bkly 62
- Whitehead, Mary Hood River, Ore.
11 Com-2618 Hillegass av Bkly 3544
- Whitehead, Ralph Radcliffe Santa Barbara
1s Min-2318 Telegraph av Bkly 5964
- Whitehill, Olive Elizabeth Deming, N. M.
1 LS-2531 Channing way Bkly 7068W
- Whitehurst, Dorothy Barbara Oakland
2 LS-631 Walla Vista av, O Lknd 3564
- Whiteside Charles Edwin Pomona
1 Min-2333 College av Bkly 1722
- Whiteside, Robert Banning Pomona
1s Min-2333 College av Bkly 1722
- Whitford, Irene Oakland
2 LS PreL-421 Forty-second st, O Pied 6841W
- Whiting, Lucile Cleaveland Berkeley
3 LS-1706 Walnut st Bkly 4276J
- Whiting, Ruth Ellen Riverside
1(1) 2 LS-2624 Virginia st Bkly 3663
- Whitney, Dorothy Nettleton Berkeley
1 LS-1481 Hawthorne ter Bkly 3649J
- Whitney, Herbert Charles Independence, Ore.
1 Min-2418 Dana st
- *Whitney, Jean Marian Healdsburg
4 LS-2400 Bancroft way Bkly 6488J
- *Whithorne, Harry Sherman San Francisco
4 LS-2500 College av Bkly 5942
- Whittle, William Austin Santa Cruz
1 Com-2248 Telegraph av Bkly 9011
- Whitton, Albert King Oakland
2 LS PreL-2713 Haste st Bkly 78
- Whitton, Elizabeth Schuyler Oakland
2s LS-41 Lake av, F Pied 3545W
- Whitworth, George Kellogg San Francisco
1(1) 2 Mec-2410 College av Bkly 6656
- Wible, Marguerite Oakland
3 LS-2400 Bancroft way Bkly 6488J
- Wickenden, James Donald San Luis Obispo
2 Mec-2412 Piedmont av
- Wickham, Laura Louise Eldridge
1 LS-2731 Regent st Bkly 3075
- Wickman, Martha Margaret Gridley
2 LS-2328 Bowditch st Bkly 2152W
- Wickstrom, Harold Ward San Francisco
3 Mec-2617 Durant av Bkly 822
- Widney, Frances Estelle Los Angeles
1 LS-2519 Ridge rd Bkly 7614
- Widney, Vincent Converse Pasadena
1(1) 3 LS-1054 Mariposa av
- Wiedemann, Alberta Hayward
1 Com-1929 Rose st Bkly 2980
- Wicking, William Henry Oakland
3 LS-2610 Durant av Bkly 7804
- Wieman, Stella Bessie Tujunga
1s LS-2214 Dana st Bkly 1160
- Wiese, John Edward Haverlock, Iowa
1 Com-2070 University av
- Wiesendanger, Delpha Elizabeth Cupertino
3 LS-2524 LeConte av Bkly 2531
- Wieslander, Leslie R. Oakland
2 Com-2717 Hearst av Bkly 5770
- Wiggins, Lelia Barton Bartlesville, Okla.
11 LS-1629 Euclid av
- Wiggins, Madeline Ventura
3 LE-2327 Bancroft way Bkly 1061W
- Wight, Gordon Alpheus Oakland
3 LS-302 Euclid av, O Oakd 7793
- Wight, Joseph Edward San Diego
11 Mec-2415 Bowditch st Bkly 6850J
- Wight, Mildred Josephine Los Angeles
(1) 3 LS-3026 Colby st Bkly 7817J
- Wightman, Florence Bloomfield, N. J.
11 LS-915 Indian Rock av Bkly 5879
- Wightman, George Edward Oakland
4 LS-2634 Bancroft way Bkly 1276
- Wightman, Madge Bloomfield, N. J.
11 LS-915 Indian Rock av Bkly 5879
- Wihler, Alfred San Francisco
3 LS-220 Golden Gate av, S F
- Wilbur, Myrtle Louise Fresno
1 LS-2542 Durant av Bkly 1864
- Wilcox, Adrian Clyde Santa Clara
4 LS-2600 Bancroft way Bkly 1901
- Wilcox, Alice May Alameda
1 LS-1904 Clinton av, A Ala 1155W
- Wilcox, Everett Berkeley
1 Min-2001 Allston way Bkly 6710
- Wilcox, Gladys Gertrude Hat Creek
11 LS-690 Vincente av Bkly 5679J
- Wilcox, Harry Burton Los Angeles
4 LS-2717 Hearst av Bkly 5770
- Wilcox, Lloyd Vernon Turlock
(1) 2 Chem-2261 Fulton st Bkly 1111
- Wilcox, Louise Best Pasadena
1 LS-1547 Euclid av Bkly 6681
- Wilcox, Olive Elizabeth Kansas City, Mo.
11 LS-1640 Oxford st Bkly 4224J
- Wilde, Clara Helen San Francisco
1 LS-1845 Lake st, S F Frkn 6123
- Wilder, Deloss Robert Santa Cruz
1 Agr-2701 Hearst av Bkly 2421
- Wilder, Martha Louise De Kalb, Ill.
2 LS-2400 Durant av Bkly 7954

- Wiles, Gloyd Marlin Hanford
 '1 Min-2616 Virginia st Bkly 6716
- Wiley, May Ruth National City
 4 LS-2228 Chapel st
- Wiley, Robert Mason Silver City, N. M.
 '1 Min-Treehaven apts Bkly 8482J
- Wilhelmi, Ray Bernhard Bancroft, Iowa
 4 Mec-2418 Dana st
- Wilkes, Mabel Winifred Mesa, Ariz.
 '1 LS-2626 Benvenue av Bkly 2908
- Wilkins, Floyd Fowler
 '2 LS PreM-2701 Hearst av Bkly 2421
- Wilkinson, Dorothy E. Blythe
 4 LS-2683 Etna st Bkly 4066
- Wilkinson, Edith Muriel Geyserville
 1 LS-2635 Etna st Bkly 6749W
- Wilkinson, Mary Alice Hollywood
 (1) 3 LS-1719 Euclid av Bkly 7844J
- Wilkinson, Pauline Berkeley
 4 LS-2525 Benvenue av Bkly 4000W
- Wilkinson, Vivian Mae Philadelphia, Pa.
 (1) 3 LS-2588 Channing way Bkly 5927
- Willett, Augusta Ventura
 3 Com-2327 Bancroft way Bkly 1061W
- Willett, Dorothy Grace Berkeley
 3 LS-2939 Pine av Bkly 5065J
- Wiley, Margaret Flint Santa Cruz
 1 LS-2725 Channing way Bkly 7950
- Wiley, Ruth Ogden Santa Cruz
 2 LS-2725 Channing way Bkly 7950
- Williams, Addison George Melones
 '2 LS-2401 Durant av Bkly 6504
- Williams, Adrienne San Francisco
 4 LS-2739 Bancroft way Bkly 204
- Williams, Amelia Newbury San Diego
 4 LS-2721 Haste st Bkly 8800
- Williams, Charles Henry Chandler, Ariz.
 '1 LS PreM-5682 Broadway, O
- Williams, Clarence Tucker Piedmont
 '3 LS-111 Mountain av, P Pied 2488
- Williams, Clarence Ward Klamath Falls, Ore.
 1 LS-2023 Oakland av, P
- Williams, Dorothy Helen Santa Barbara
 '3 LS-2710 Channing way Bkly 9520
- Williams, Dorothy Putnam Los Angeles
 3 LS-2524 LeConte av Bkly 2581
- Williams, Edward Albert, Jr. Fresno
 4 LS and 1 Juris-2601 Channing way Bkly 5904
- Williams, Esther Warren Alameda
 '1 LS-2039 Emerson st
- Williams, Evan C. Santa Monica
 1 LS-2218 Dana st Bkly 3267
- Williams, Francis Ellard Suva
 1 LS PreL-2415 Bowditch st Bkly 8650J
- Williams, Fred Delos Porterville
 '1 (1) 2 Agr-2527 Ridge rd Bkly 6107
- Williams, George Addison Melones
 '2 Com-2401 Durant av Bkly 6504
- Williams, George Wesley Salt Lake City, Utah
 2 Com-2001 Allston way Bkly 6710
- Williams, Gladys Childs Denver, Colo.
 '1 (1) 3 LS-2126 Bancroft way Bkly 5695J
- Williams, Gwladys Louise Berkeley
 8 LS-1410 Scenic av Bkly 3607
- Williams, Harold Beresford Sausalito
 1 LS-935 Sausalito blvd, S Sausalito 121
- Williams, Helen Lavina Evanston, Ill.
 (1) 2 LS-2323 College av Bkly 2590W
- Williams, James Howard Portland, Ore.
 1 Chem-308 Chemistry bldg, Campus
- Williams, Juanita Bakersfield
 8 LS-2417 Blake st Bkly 6976
- Williams, Katharine San Diego
 1 LS-2721 Haste st Bkly 8800
- Williams, Kenneth Lloyd Berkeley
 2 LS-2714 Grove st Bkly 4912J
- Williams, Leicester Henry Berkeley
 8 Mec-2125 Carlton st
- Williams, Luther Franklyn Piedmont
 '1 Mec-309 Howard av, P Pied 5910
- Williams, Margaret San Diego
 1 LS-2721 Haste st Bkly 8800
- Williams, Marjorie Ella Salt Lake City Utah
 8 LS-2942 Linden av Bkly 1925J
- Williams, Marshall Bradley Berkeley
 (1) 2 LS-2710 Telegraph av Bkly 1385J
- Williams, Prudence Malden, Mass.
 (1) 4 LS-2629 Haste st
- Williams, Ruth Bernadine San Rafael
 1 LS-2210 Chapel st Bkly 6037J
- Williams, Ruth Gertrude San Francisco
 '1 LS-225 Guerrero st, S F Mkt 8776
- Williams, Wanda Dempsey Oakland
 '2s LS-1016 Twenty-fourth st, O
- Williams, William Frank Oakland
 1 LS PreM-1510 Ninth st, O Oakd 5783
- Williams, Wilma Cathryn San Jose
 4 LS-2211 Atherton st Bkly 2744W
- Williamson, Eva Rachel Sebastopol
 2 LS-1214 Walnut st Bkly 3050J
- Williamson, Fenton David Mills
 1 LS PreL-2214 Dana st Bkly 1160
- Williamson, Lorna San Francisco
 4 LS-881 Mason st, S F Popt 1685
- Williamson, Margaret Scott Santa Cruz
 1 LS-2519 Ridge rd Bkly 7614
- Williamson, Paul Stuart Berkeley
 2 Agr-1842 Parker st
- Williamson, Shirley New York, N. Y.
 3 LS-2525 Ridge rd Bkly 3125J
- Williamson, Virginia Corrine Honolulu, T. H.
 '1 LS-3838 Grove st, O

- Willis, Blanch Alice Broken Bow, Neb.
 *1 LS-1131 Adeline st, O
 Willis, Marion Mildred Twin Falls, Idaho
 1 LS-1404 Bonita av Bkly 7770W
 Willis, Muriel Ethel Twin Falls, Idaho
 *1 LS-1404 Bonita av Bkly 7770W
 Willis, Sybil Rideout Berkeley
 *8 LS-2711 Durant av Bkly 8590W
 Willis, Theron A. Orange
 (1) 2 LS-2410 Bancroft way Bkly 4443W
 Willis, Waltham Rideout Berkeley
 *1 Com-2711 Durant av Bkly 8590W
 Willoughby, A. Brunson Berkeley
 4 LS-2754 Webster st Bkly 4459
 Willoughby, Francis Howard Santa Barbara
 *1s LS PreL-2317½ Durant av Bkly 6048W
 Willis, Florence Anne Chicago, Ill.
 2 LS-2156 Blake st Bkly 6143W
 Willson, Esther Alleen Berkeley
 1 LS-2214 Carlton st Bkly 5881J
 Willson, Grace Nicholl Oakland
 4 LS-2519 Ridge rd Bkly 7614
 Willson, Janet Oakland
 1 LS-3115 E Stuart st, O Mer 3888
 Willson, Raymond Alvin Oakland
 1 LS-361 Twenty-eighth st, O Lksd 8818
 Wilmot, Edward Walter Berkeley
 *2 Com-2626 College av Berkeley
 Wilmot, Jesse Clifford Berkeley
 *2 Agr-2626 College av
 Wilson, Alex Edward Oroville
 *3 LS PreL-2388 College av Bkly 5548
 Wilson, Alice Muirhead Berkeley
 8 Chem-2201 Eunice st Bkly 6865W
 Wilson, Arthur Jeffery Watsonville
 8 LS-2601 Channing way Bkly 5904
 Wilson, Bruce Alvin Martinez
 2 Mec-1922 Oxford st Bkly 8031W
 Wilson, Cecil Conklin Bakersfield
 2 LS-878 Fairmont av, O Oakd 8802
 Wilson, Clarence Hamilton Corcoran
 1 LS-1419 Walnut st Bkly 4261J
 Wilson, Clifford Oulton Etna Mills
 8 Chem-1120 Spruce st Bkly 8685J
 Wilson, Dave S. Oakland
 2 LS-228 E Eighteenth st, O Mer 1606
 Wilson, Dean Bruce Berkeley
 2 LS-2531 Benvenue av Bkly 6304W
 Wilson, Doris Ames, Ia.
 (1) 4 LS-2416 College av Bkly 8476J
 Wilson, Dorothy Los Angeles
 4 LS-2722 Garber st Bkly 9582W
 Wilson, Dorothy May Isobel Victoria, B. C.
 8 LS-2422 Ashby av
 Wilson, Edwin Durno Olympia, Wn.
 *2(1) 4 LS-2435 Haste st Bkly 1980
 Wilson, Frances Marguerite Berkeley
 4 LS-1542 Arch st Bkly 629J
 Wilson, Francis Reese Oakland
 1 Agr-2805 Ninety-fourth av, O Elm 898
 Wilson, Glenn Ross Bakersfield
 2 LS-878A Fairmont av Oakd 8802
 Wilson, Harlow Monrovia
 1 LS-2225 Channing way Bkly 1984J
 Wilson, Howard Reid Dixon
 1 LS PreL-2406 Dana st Bkly 7718
 *Wilson, Icile Alice Saratoga
 4 LS-2201 Ellsworth st Bkly 6037W
 Wilson, Irene Beatrice Victoria, B. C.
 1 LS-2422 Ashby av
 Wilson, Jean Alice Cody, Wyo.
 1 LS-2531 Channing way Bkly 7068W
 Wilson, Jean Beveridge Victoria, B. C.
 2 LS PreM-2422 Ashby av
 Wilson, John Robert Wesley Alameda
 *1s Agr-1381 St. Charles st, A Ala 4157
 Wilson, Josephine Almyra Berkeley
 *2 LS-1532 Scenic av Bkly 6382J
 Wilson, Kenneth Hall Fowler
 8 Com-2601 Durant av Bkly 23
 Wilson, Kenneth Roy Berkeley
 8 Agr-2912 Ellis st
 Wilson, Leo Klays Davis
 8 LS PreM-2522 Ridge rd Bkly 5950
 Wilson, Lloyd Richards Los Angeles
 4 LS-Elks Club Bkly 1002
 Wilson, Lucie V. Los Angeles
 2 LS-2714 Channing way Bkly 9520
 Wilson, Mabel Marian Watsonville
 2 LS-2714 Ridge rd Bkly 9098
 Wilson, Mary Adelaide Berkeley
 *8 LS-2441 Haste st Bkly 7287J
 Wilson, Mary Louise Oakland
 (1) 2 LS-6257 Acacia av, O Pied 8009
 Wilson, Mary Pender Fowler
 1 LS-2632 Etna st Bkly 7791J
 Wilson, Nina P. San Francisco
 *1s LS-2743 Derby st Bkly 1469W
 Wilson, Onnie Albin San Francisco
 8 LS-444 Arkansas st, S F
 Wilson, Orlando Winfield San Diego
 *1 Min-2421 Virginia st Bkly 1171J
 Wilson, Percy Herbert Los Angeles
 2 Mec-2607 Hearst av Bkly 5918
 Wilson, Robert Wynne, Jr. Portland, Ore.
 2 LS-2647 Durant av Bkly 102
 Wilson, Robin Stewart Victoria, B. C.
 1 OE-2422 Ashby av
 Wilson, Rolland Ball Berkeley
 1 Com-1922 Oxford st

Wilson, Thomas Richard	El Centro	Wise, Joseph Alexander	Berkeley
'2 Com-2701 Hearst av	Bkly 2421	3 CE-1945 Berkeley way	Bkly 5015
Wilson, Wilbur Max	Dixon	Wise, Roger Maurice	San Diego
1 Com-2406 Dana st	Bkly 7718	(1) 2 Mec-2616 Virginia st	Bkly 6716
Wilson, William Wesley	Oakland	Wise, Rose	Berkeley
1s Com-6257 Acacia av, O	Pied 8009	2 LS-1945 Berkeley way	Bkly 5015
Wilson, Winfield	San Diego	Wiser, Vern Leroy	Gridley
'1 LS PreL-2281 Dana st		'2 Agr-2486 Prospect st	
Winans, Lorene L.	Willits	Wishon, Marion L.	Bakersfield
2 Com-2021 Franklin st, O	Oakd 1180	8 Agr-2620 Bancroft way	Bkly 8870
Winchester, Mildred Jane	San Francisco	Wiasser, John Philip	Berkeley
3 LS-2542 Durant av	Bkly 1864	3 Agr-University Farm, Davis	
Windele, Cicely Joan	San Francisco	Wissman, Herman Wendall	Oakland
'1 LS-1404 Page st, S F	Park 5012	1 Agr-662 Arimo av, O	Oakd 6945
Widell, Homer D.	Riverdale	Witherly, Myrtis Sybil	Stockton
'1 LS PreL-University Hotel		1 LS-2709 Channing way	Bkly 8528
Wing, Maria Fern	Medford, Ore.	Witherspoon, Evelyn Butler	Butte, Mont.
2 LS-2088 Bancroft way	Bkly 8222	3 LS-2710 Channing way	Bkly 9520
Wing, Winchester Paddock	Palo Alto	Witherspoon, Gavin	Los Angeles
4 Agr-University Farm, Davis		1 Min-2214 Dana st	Bkly 1160
Wingood, Norma Elizabeth	Santa Ana	Withrow, Jay Orland	San Francisco
'1(1) 4 LS PreM-2624 Virginia st		2 Com-2106 Hearst av	Bkly 3783J
	Bkly 8663	Witkin, Zara	San Francisco
Winkler, Herbert Spencer	Ukiah	3 CE-1750 Ellis st, S F	West 9547
2 LS-1640 Walnut st	Bkly 8191J	Witmer, Thelma Doreen	Portland, Ore.
Winnek, Ruth Virginia	San Diego	1 LS-5318 Bryant av, O	Pied 7002W
'2s LS-1770 Pacific av, S F	Frkn 2871	Witt, Irmgard	Berkeley
Winning, Charles Del Norte	San Jose	3 LS-2509 Prince st	Bkly 6556J
(1) 4 LS-2281 Dana st	Bkly 8716	Witt, Vera Anita	Benicia
Winning, Ruth Ernestine	San Mateo	4 LS-2509 Prince st	Bkly 6556J
2 LS-2542 Durant av	Bkly 1864	Witten, Alice Louise	San Jose
Winning, Samuel Evans	San Francisco	4 LS-2380 College av	Bkly 1803
3 LS-2281 Dana st	Bkly 1061W	Witter, Edwin Damon	Oakland
Winship, Desmond Augustus	Sutter City	2 LS-2251 College av	Bkly 9107
1 LS PreL-2333 Ward st	Bkly 8761W	Witter, Guy Phelps	Oakland
Winship, Lawrence Albertson	Marysville	'1 LS-6411 Regent st, O	Pied 3884W
1 Agr-2401 Durant av	Bkly 6504	Wixson, Marion Marguerite	Oakland
Winslow, Anne Goodwin	Washington, D. C.	4 LS-1628 Walnut st	Bkly 5409J
'1s LS-2331 LeConte av	Bkly 3153	Wixson, Roselle Adele	Oakland
Winslow, Mary Blythe	Washington, D. C.	3 LS-1628 Walnut st	Bkly 5409J
1 LS-2331 LeConte av	Bkly 8158	Wobbs, Dorothy Jane	Oakland
Winslow, Victor J.	Alhambra	'2(1) 2 LS-283 Park View ter, O	Oakd 6661
'2 Com-1730 La Loma av	Bkly 8716		Redlands
Winstead, John Shelby	Napa	Woehr, Charles Dorman	
4 LS-1711 Euclid av	Bkly 3378	'4 LS and 1 Juris-2101 Telegraph av, O	Lkd 1700
Winston, James Wallace	Duarte		Pomona
(1) 2 Agr-2316 Bowditch st	Bkly 1416	Woehr, J. LeRoy	
Winter, Bailey	El Paso, Tex.	2 LS PreL-747 Alcatraz av, O	Pied 3208J
1 LS PreL-2318 Telegraph av	Bkly 5964		Oakland
Winter, Thaddeus Ardina	Los Angeles	Woerner, Ruth Muriel	
4 LS-2316 Bowditch st	Bkly 1416	1 LS-3440 Boston av, O	
Winterer, Edward Virgil	Los Angeles	Woitishak, Alfred Joseph	Los Angeles
3 Agr-University Farm, Davis		3 Agr-University Farm, Davis	
Winthral, Theodore Randolph	San Francisco	Wolcott, Elva	Oakland
		(1) 2 LS-454 Thirty-sixth st, O	Pied 3412W
2 Agr-2114 Durant av	Bkly 7426J		San Francisco
Wintzer, Arnold Clare	Fort Bragg	'1 Mec-2257 Steiner st, S F	
'2 LS PreM-2134 Parker st	Bkly 5070J	Wolf, Mildred G.	San Diego
Winzler, George Sidney	Eureka	'1 LS-2623 Channing way	Bkly 6925J
2 CE-2333 College av	Bkly 1722		

- Wolfkin George Lewis Redlands
 4 Min-1705 Walnut st Bkly 7291W
 Wolhaupter, Hazel Ogden, Utah
 1 LS-2814 Parker st Bkly 4150
 Wollam, Gerald Zennus Berkeley
 3 Mec-2029 Hearst av Bkly 3795J
 Wollam, Ora Everett Berkeley
 3 Chem-2029 Hearst av
 Wollenberg, Albert Charles San Francisco
 2 LS PreL-Relief Home, S F Snt 1580
 Wolthuis, Wilhelmina Oakland
 1 LS-2616 E Sixteenth st, O Frvl 1779
 Wonder, Irena Violet Long Beach
¹(1) 3 LS-2109 Shattuck av Bkly 6684
 Wong, Elsie N. T. Honolulu, T. H.
 2 LS PreM-2700 Bancroft way
 Bkly 8570
 Wong, Kim O. Oakland
 4 CE-229 Seventh st, O
 Woo, M. Shanghai, China
 1 Com-2600 Etna st Bkly 7593
 Wood, Austin Bigelow San Francisco
 1 LS-1809 Euclid av
 Wood, Blanche L. Berkeley
¹1s LS-2520 Ridge rd Bkly 5845W
 Wood, Elinor Bryan San Francisco
 3 LS-1715 LeRoy av Bkly 2351
 Wood, George Clifford Danville
 2 Agr-2305 Bancroft way Bkly 7461
 *Wood, George Joseph Tulare
 4 LS and 1 Med-2122 Bancroft way
 Wood, George Lawrence, Jr. Reedley
 3 Chem-2333 College av Bkly 1722
 Wood, Henry Allyn Berkeley
 (1) 4 LS-2610 Warring st Bkly 1987J
 Wood, Henry Charles Berkeley
 1 CE-2910 Newbury st
 Wood, Howard Charles Danville
 2 LS-2305 Bancroft way Bkly 7461
 Wood, Lucy Washburn New York, N. Y.
¹1s LS-4 Nottingham av Bkly 7072J
 Wood, Maude Edna Berkeley
 1 LS-2228 Parker st Bkly 1938J
 Wood, Melvin V. Jackson
 (1) 3 LS PreL-2501 Ridge rd
 Bkly 1385
 Wood, Ralph Waldo San Francisco
 1s LS-2145 Franklin st, S F Papt 946
 Wood, Truman Andrew Madera
 4 Mec-2021 Channing way Bkly 663
 Woodard, Granville Oscar Riverside
²2 LS-928 Willow st, A Ala 457W
 Woodbury, Ernest Edward Folsom
¹1 CE-6116 Taft av, O Pied 5186
 Woodcock, Ruby Alice Oakland
 2 LS-2515 E Sixteenth st, O
 Frvl 2006W
 Woodford, Clifford, Roderick Sebastopol
 1 LS-2336 College av
 Woodford, Norman Alford Richmond
¹1s Mec-440 Tenth st, R
 Woodhams, George Edwin Los Angeles
 2 LS-1728 Alston way
 Woodhams, Harold Emmet Los Angeles
 2 LS PreA-1728 Alston way
 Woodlaw, Robert Thornton San Francisco
 1 Com-1102 Irving st, S F Snt 238
 Woodruff, Edward Tyson Redlands
 4 Mec-1726 Euclid av Bkly 6706
 Woodruff, William Rush Redlands
 1 Chem-2336 College av Bkly 2431
 Woodruff, Winifred M. Smith River
 1 LS-2017 Lincoln av Bkly 4706J
 Woods, Adalbert Daniel Oakland
 1 LS PreM-1240 Sixtieth av, O Elm 684
 Woods, Ruby Ione Seattle, Wn.
 1 LS-1414 Milvia st Bkly 8091W
 Woods, Ruth Emelyn Oakland
 1 Com-373 Hanover av, O Mer 3549
 Woodward, Ervin Chapman Berkeley
 3 LS-2717 Hearst av Bkly 5770
 Woodward, Evelyn Hamlin Susanville
 1 Com-1345 Arch st Bkly 5261W
 Woodward, Irene Elizabeth San Francisco
¹1 LS-423 Guerrero st, S F Park 1309
 Woodward, Wilfred Henry Berkeley
 1 Mec-2707 Fulton st Bkly 7032
 Woodworth, Charles Edward Berkeley
 2 Agr-2237 Carlton st Bkly 2154
 Woodworth, Mary Elizabeth Berkeley
¹1 LS-2237 Carlton st Bkly 2154
 Wool, Jeanette Los Angeles
¹1s LS-1912 Milvia st
 Woollett, Lykira Parker Hollywood
¹(1) 2 LS-2315 Durant av Bkly 7582
 Woolley, Davis Berkeley
 3 LS PreL-2519 Hillcourt av Bkly 212W
 Woolsey, Leon Harland Oakland
¹1s Com-5677 Ocean View dr, O
 Pied 8673W
 Woolsey, Marian Johnson Berkeley
 2 LS-2244 Dwight way Bkly 1318
 Woolsey, William Harold Berkeley
¹1 LS-Hotel Whitecotton Bkly 7300
 Wooster, Elizabeth Woodland
³3 LS-2624 Virginia st Bkly 3663
 Wooster, Leonard Collins Woodland
 3 LS-2522 Ridge rd Bkly 5950
 Wooster, Philip Anthony San Francisco
 2 Min-3001 Jackson st, S F
 Work, Alice Marie Paso Robles
 3 LS-2627 Hearst av Bkly 4009
 Workman, Arnold Reeve Hinckley, Utah
¹1 Chem-2529 Fulton st
 Works, Pierce Los Angeles
 4 LS and 1 Juris-2601 Channing way
 Bkly 5904
 Wotton, Eleanor Kathryn Oakland
 1 LS-3573 Dimond av, O Frvl 1065W

Wotton, George Ernest	Oakland	Wyckoff, Rylla	San Francisco
3 CE-3573 Diamond av, O	Frl 1065W	¹ LS-959 Ashbury st, S F	Park 6035
Wright, Burton George	Santa Ana	Wyeth, Harry Bissell, Jr.	Los Angeles
2 Agr-2318 Telegraph av	Bkly 5964	1 LS-1815 Highland pl	Bkly 1682
Wright, Catherine Minnie	Oakland	Wylie, Clarice Adele	Santa Maria
¹ LS-Fabiola Hospital, O	Pied 162	3 LS-2434 Bowditch st	Bkly 6384
Wright, Donald Huntington	Berkeley	Wylie, Ida Margaret	Santa Maria
3 LS-2626 Warring at	Bkly 4586	¹ LS-2248 Blake st	Bkly 7928
Wright, Dorothy Katherine	Santa Rosa	Wylie, Mary Olive	Marissa, Ill.
(1) 3 LS-2728 Durant av	Bkly 9581	² (1) 3 LS-2314 Prince st	
Wright, Frances	Los Angeles	*Wyllie, Genevieve Lucile	Stockton
² (1) 2 LS-2585 Channing way	Bkly 6201W	4 LS-2714 Ridge rd	Bkly 9093
Wright, George Frederic	Centerville	Wyllie, Loring Alfred	Sacramento
1 Mec-2501 Ridge rd	Bkly 1835	3 Com-1815 Highland pl	Bkly 1682
Wright, Gilbert William	Niles	Yager, Carlton Leonard	Ione
¹² Agr-2130 Shattuck av	Bkly 5285W	1 Mec-5466 Manila av, O	Pied 1181J
Wright, Hazel Dretta	Houston, Tex.	Yahanda, Teiso	Pacific Grove
1 LS-Euclid apts	Bkly 7674J	²⁴ Agr-1789 Euclid av	Bkly 6441
Wright, Jonathan Garrard	Berkeley	Yamaguchi, Ko	Berkeley
4 CE-2025 Francisco st	Bkly 5084J	2 LS-2514 Shattuck av	Bkly 8769
Wright, Lawrence Stauffer	Los Angeles	Yamasaki, Masamitsu	San Francisco
2 LS-2616 Virginia st	Bkly 6716	3 LS-1789 Euclid av	
Wright, Mildred	Sussex, England	Yaney, Frances Eva	Bishop
¹ LS-2516B Ridge rd	Bkly 5845W	1 LS-2328 Bowditch st	Bkly 2152W
Wright, Theodore Ramsey	Berkeley	Yarborough, Arthur Leon	Los Angeles
1 Min-2902 Hillgass av		¹ LS PreA-2231 Dana st	Bkly 1061W
*Wright, Whitney Braymer	Camden, N. J.	Yater, Russell A.	Davis
4 LS-2516B Ridge rd	Bkly 5313	2s Com-2625 Hearst av	Bkly 9535
Wright, William Hield	Glendora	Yates, Arthur Berkeley	Lead. S. Dak.
3 Agr-2208 Ellaworth st	Bkly 7912J	2 Min-2307 Hearst av	Bkly 6815
Wrightson, Alice	Fowler	Yates, Dorothy Virginia	San Francisco
2 LS-2400 Bancroft way	Bkly 6488J	2 LS-1494 Plymouth av, S F	Rndph 278
Wrocklage, Henry Gerhardt	Pasadena	Yates, Russell Ringo	Berkeley
¹ LS PreA-2511 Regent at	Bkly 1867J	2 Com-2825 Prince st	Bkly 3842
Wucher, Lewis	Berkeley	Yates, Wallace Jerome	Oakland
1s LS-2700 Fulton st	Bkly 9059J	1 Mec-2943 Magnolia st	Bkly 7476J
Wulff, Harold Alger	Sacramento	Yeager, Joseph Dewey	Windsor
4 Mec-1912 Haste st		¹ Agr-2528 Ridge rd	Bkly 8500
Wulzen, Margaret Elizabeth	San Francisco	*Yee, Jew Yam	Honolulu, T. H.
1 LS-2703 Forest av	Bkly 8700	4 Chem-2504 Regent st	Bkly 3893J
Wurkheim, Florine Claire	San Francisco	Yelland, Helen E.	Los Gatos
2 LS-2781 Regent at	Bkly 2075	2 Com-2739 Bancroft way	Bkly 204
Wurster, Helen	Stockton	Yerxa, Randolph Stough	Redlands
2 LS-2782 Channing way	Bkly 7026	2 LS-2713 Haste st	Bkly 78
Wurzbach, Genevieve Shupe	San Francisco	Yick, Jack Jung	Oakland
4 LS-400 Duboce av, S F	Mkt 612	1 Mec-607 Harrison st, O	
Wy, Choy Gay	Oakland	Yip, Eunice	Oakland
1 LS PreA-678 Twenty-eighth st, O		2 LS-161 Eighth st, O	
Wyche, Philip Ludwell	San Francisco	Yip, Jethro	Oakland
3 Mec-2426 Virginia st	Bkly 564	3 Agr-161 Eighth st, O	
Wyckoff, Beatrice Harriet	San Francisco	Yocco, Mary	Los Gatos
2 Com-2520 Virginia st	Bkly 7247	4 LS-2400 Bancroft way	Bkly 6488J
Wyckoff, Hubert Coke, Jr.	Watsonville	Yokoyama, Juro	San Francisco
1 LS PreL-2532 Bancroft way		3 LS-1789 Euclid av	Bkly 6441
	Bkly 3012	York, Harold Charles	Blackfoot, Idaho
		1 Com-2820 Bancroft way	Bkly 4676

York, Miles F.	Templeton	Younger, Ruth Ready	Berkeley
2 LS-2684 Bancroft way	Bkly 1276	1 LS-2519 Etna st	Bkly 8287W
Yoshida, Yasochichi Frank	Elk Grove	Youngs, Clara D.	San Francisco
2 Mec-1739 Euclid av	Bkly 6441	*1s LS-70A Sanchez st, S F	Mrkt 1514
Yoshikawa, Ichiji	Los Angeles	Youngstrom, Charles Harrell	Upland
4 Agr-University Farm, Davis		1 Mec-2701 Hearst av	Bkly 2421
Yoshimoto, Yeiya	San Francisco	Youngstrom, Nels Clinton	Upland
*1 Com-2157 Dwight way	Bkly 2580	8 Mec-2701 Hearst av	Bkly 2421
Yoshioka, Joseph Geno	San Francisco	Yulich, Bertha Marguerite	Willits
1 LS-400 Duboce av, S F	Mrkt 612	2 LS-2385 Haste st	Bkly 5707W
Yost, Sherman Abel	Fullerton	Zamanigian, Sooren Sarkis	Fowler
*1 Min-2208 Ellsworth st		*1 Chem-2441 Bancroft way	Bkly 2400
Young, Alex Joseph	San Francisco	Zander, Leon Zander	Berkeley
1 LS-2425 LeConte av	Bkly 4334	1 Com-2119 Grant st	Bkly 2827W
Young, Bedford Jerome	Long Beach	Zantoro, Gustave Karl	Los Angeles
1 Com-2438 Durant av		*1 Com-424 Sixty-first st, O	
Young, Charles LeRoy	Woodland	Zarchin, Michael	San Francisco
4 CE-2415 Haste st	Bkly 244W	4 Com-2229 Channing way	Bkly 1221J
Young, Edith Frances	Sonoma	Zasuniantz, Stephanos Gevorkian	Harbin, Manchuria
*1 LS PreM-58 Nace st, P		*1 Mec-676 Fulton st, S F	
Young, Edward Taylor	Oakland	Zeile, Elsie May	Berkeley
1 Com-852 Palm av, O	Oakd 4007	2s LS-1527 Hopkins st	Bkly 2935
Young, Elsie Marie	Oakland	Zellhoefer, S. Iola	Berkeley
2 LS-5333 Broadway, O	Pied 2779W	2 LS-1148 Sutter st	Bkly 7830J
Young, Frank Guthrie	Inglewood	Ziegenfuss, Grace Cary	Oakland
*8 Com-2115 McKinley st		2 LS-8710 Telegraph av, O	Pied 960W
Young, Gay	Reward	Ziegler, Ruth Isabel	Los Angeles
(1) 8 LS-1928 Home st		1 LS-2400 Piedmont av	Bkly 5224
Young, Hazel	Los Angeles	Zimmer, Harry David	Fullerton
*8 LS-1700 Euclid av	Bkly 6789	*8 Agr-2248 Telegraph av	Bkly 9011
Young, Leslie Furness	Coronado	Zimmerman, Alfred Lionel	Tsingtau, China
1 Com-1629 Euclid av	Bkly 2094W	1 LS-2220 Milvia st	Bkly 8682W
Young, Myrtle Helen	Willits	Zimmerman, Bruce Lewis	Highland
2 LS-1700 Euclid av	Bkly 6789	2 LS-2701 Hearst av	Bkly 2421
Young, Paul Bertrand	San Francisco	Zimmerman, Henry James	San Francisco
*1 LS-2425 LeConte av	Bkly 4384	4 Com-2220 Milvia st	Bkly 8632W
Young, Robb Roy	Berkeley	Zimmerman, John Russell	Los Angeles
3 Agr-2612 Benvenue av	Bkly 344	2 Min-2305 Bancroft way	Bkly 7461
Young, Thomas Fraser	Stockton	Zimmerman, LeRoy Woodward	Woodland
4 LS-2701 Hearst av	Bkly 2421	*1s LS-2817 Hearst av	Bkly 6815
Young, Vivian Ray	Auburn	Zunini, Hazel Kathryn	Lovelock, Nev.
3 LS-2539 Grant st	Bkly 8345J	1 Com-2627 Hearst av	Bkly 4009
Younger, Hazel Aileen	Woodland	Zweigart, John B.	Marysville, Ky.
(1) 4 LS-2417 LeConte av	Bkly 5650	2 LS-2625 Hearst av	Bkly 9585
Younger, John Elliott	Berkeley	Zwicker, Arno Paul	San Francisco
1 Mec-1527 Parker st		(1) 3 LS PreM-1476 Harrison st, O	
Younger, Nancy Brunette	Berkeley		Oakd 7831
*1s LS-1527 Parker st			

SUPPLEMENTARY LIST OF STUDENTS, 1919-20

(Names of students registered after the foregoing list was printed)

GRADUATE STUDENTS

Bailey, Ernest Winfield Urbana, Ill.
 B.S. (Massachusetts Agricultural College)
 1908; M.S. (University of Illinois)
 1909; cand. Ph.D. (agriculture)
 3 Agr-Citrus Experiment Station, River-
 side.

Connell, Allison B. Toronto, Canada
 B.S. (University of Toronto) 1914
 *1 Agr-2518 Virginia st

Crandall, Helen L. Berkeley
 A.B. (Stanford University) 1905
 *1 LS-2814 College av Bkly 1219W

Johns, Arthur Wesley San Francisco
 A.B. (College of the Pacific) 1912; B.L.
 1914
 *1 LS-1938 Page st, S F Park 7809

McNiece, Renwick Sloane Berkeley
 A.B. (Princeton University) 1907
 1 LS-2442 Piedmont av Bkly 4590W

Neilson, Nelsine Marion Berkeley
 B.L. 1914; M.A. 1915; cand. Ph.D. (re-
 search medicine)
 5 LS-1249 Fourth av, S F

UNDERGRADUATE STUDENTS

Hoffman, Mabel Long Beach
 *(1) 3 LS-2520 Durant av Bkly 1675

Westover, Wyckoff Berkeley
 *(1) 3 CE-1400 Hawthorne ter
 Bkly 5179W

B. THE COLLEGES IN SAN FRANCISCO AND LOS ANGELES

NOTE—All addresses in the following lists are in San Francisco unless stated to be elsewhere. B, Berkeley; O, Oakland; A, Alameda; P, Piedmont.

1. HASTINGS COLLEGE OF THE LAW

Ayres, Manvil Hector	San Juan Bautista	Forsyth, Alfred A.	San Francisco
¹ Spec-1016 Jackson st, O		Spec-1146 Mission st	
Benavides, Ildefonso	Budol, Manila, P. I.	Giannini, Lawrence Mario	San Mateo
A.B. (University de Rizal, Manila)		3rd yr-Olympic Club	
¹ 2nd yr-685 Montgomery st		Grant, Albert Anderson	San Francisco
Bennett, Eugene Dunlap	Santa Cruz	Spec-653 Sacramento st	
L.L.B. (Cumberland University)		Grennan, John Aloysius, Jr.	Berkeley
3rd yr-624 Mills bldg	Dgls 2924	1st yr-1714 Walnut st, B	Bkly 1177
Bourquin, Marion Mitchell	Butte, Mont.	Hagerty, James Leo	Oakland
3rd yr-584 Steiner st	Park 7553	A.B. (St. Mary's College) 1919	
Bruns, Walter Emil	Oakland	1st yr-3469 Piedmont av, O	Pied 3121
1st yr-5916 Elsie av, O		Harrison, Gregory Alexander	San Francisco
Caffaro, Rudolph Martin	Sacramento	A.B. 1917	
A.B. (St Mary's College) 1919		2nd yr-8329 Washington st	West 295
1st yr-Fugazi Bank, 2 Columbus av		Hawkins, Leland Stanford	Washington, D.C.
Grfid 2210		1st yr-2014 Fillmore st	
Carpenter, Chellis M.	Humboldt, Ariz.	Hertz, James Isie	San Francisco
1st yr-534 Steiner st	Park 7553	1st yr-471 Twelfth av	
Catania, Clifton Joseph	San Francisco	Hoge, John Hampton	San Francisco
¹ Spec-3415 Twenty-first st		³ 3rd yr-114 Sansome st	
Cavagnaro, James Finley	Oakland	Hotaling, George Henry	San Francisco
1st yr-400 Lagunitas av, O		A.B. 1917	
Collins, Simon Miller	Berkeley	2nd yr-1904 Franklin st	Frkn 1389
3rd yr-916 Fresno st, B		Hubbard, Henry Ross	San Francisco
Crocker, Henry Joseph	San Francisco	B.S. (University of Missouri) 1917	
A.B. (Yale University) 1916		1st yr-Potter Hotel	Mrkt 3790
1st yr-2301 Laguna st		Jiménez, Roberto Antonio	Alameda
Daney, Florence Rines	Oakland	3rd yr-Consulate of Panama	Grfid 1145
2nd yr-1120 Sixty-ninth av, O		Kronenberg, James Frederick	Sausalito
Debenodetti, Henry Eugene	Half Moon Bay	A.B. 1919	
1st yr-Half Moon Bay		2nd yr-R. D. 1, Box 38, Sausalito	
Dozier, Erwin Y.	San Francisco	Levé, Frederick Philip	Fruitvale
¹ 2nd yr-1103 First Nat'l Bank bldg		B.S. 1917	
Eickhoff, Henry, Jr.	San Francisco	3rd yr-1220 Fruitvale av, O	
A.B. (Stanford University) 1919		Levy, Robert Leonard	San Francisco
3rd yr-1650 Lake st	Pac 2843	1st yr-2946 California st	
Ferguson, Donald Kelly	San Diego	Logan, Easter	San Francisco
1st yr-Larne Hotel		A.B. (Waseda University) 1915	
Fisher, Charles Wilson	Oakland	¹ 1st yr-1554 Post st	
1st yr-431 Orange st, O		Magoon, Eaton Harry	Honolulu, T. H.
Floyd, Leslie Kennedy	Vallejo	3rd yr-1106 Bush st	
Spec-835 Octavia st	Mrkt 3115	Manson, Stewart Gaylord	Oakland
Footo, Harold Samuel	San Mateo	1st yr-809 Kohl bldg	
Spec-San Mateo			

May, Douglas	Angels Camp	Roan, Everett Hale	Pasadena
8rd yr-2401 Durant av, B		3rd yr-974 Pine st	
McClellan, James Edward	Brawley	Ross, Sarah Vida	Berkeley
1st yr-1190 Eddy st		AB. 1906; M.A. 1908	
McInerney, James Ignatius	San Francisco	1st yr-2700 California st, B	
'Spec-371 Fifteenth av		Salinger, Herbert H.	Piedmont
Michieli, John Paul	San Francisco	3rd yr-1504 Oakland av, P	
Ph.C. (College of Physicians and Surgeons)		Sheehan, William Wallace	San Francisco
Spec-3276 Mission st		3rd yr-1227 Tenth av	Sant 1974
Michieli, Josephine D	San Francisco	Shortridge, Samuel M., Jr.	Menlo Park
Spec-110 Twenty-ninth st		1st yr-St. James' Hotel	
Murphy, Joseph A.	Ohio	Starkweather, Rufus P.	Oakland
1st yr-584 Steiner st	Park 7558	Spec-1007 Claus Spreckels bldg	
Myers, Alma Marie	Berkeley	Stiver, Mark Carlton	San Francisco
2nd yr-109 Hillcrest rd, B	Bkly 8022W	'Spec-21A Baker st	
Nolan, Webster Kenneth	San Francisco	Stewart, Fred R.	Berkeley
'Spec-2524 Washington st		1st yr-57 Post st	
O'Leary, Francis	San Francisco	Ti Ohieng, Lee	Foochow City, China
1st yr-55 Alvarado st		1st yr-665 Hayes st	Mkt 9380
O'Neill, Frank Thomas	San Francisco	Ward, George Albert	Santa Cruz
3rd yr-541 Tenth av	Pac 8028	Spec-580 McAllister st	Mkt 8778
Peters, George Yates	Berkeley	Williams, Higbee	San Francisco
Spec-18 Hillside ct, B	Bkly 7487	1st yr-834 Fulton st	
Pierovich, Andrew L	Jackson	Woodworth, Fremont Erwin	San Francisco
A.B. (St. Mary's College) 1917		3rd yr-1316 Mariposa av	
1st yr-812 York st			

2. MEDICAL SCHOOL

NOTE.—The medical classes of the first year and part of the second year are conducted in Berkeley; all other medical instruction is given in San Francisco. Medical students who are taking any part of their work in Berkeley are listed also among graduate or undergraduate students in the foregoing pages.

Achenbach, Louis W.	Riverside	Bird, Clare Edward	La Jolla
1st yr-1711 Euclid av, B	Bkly 3378	1st yr-2534 Ridge rd, B	Bkly 2834W
Allen, Ernest G.	Upper Lake	Blair, Edward W.	Albany, Ore.
B.L. 1910		1st yr-2425 Bancroft way, B	Bkly 1748
2nd yr-772 Cole st, S F	Park 4559	Booth, Myron Murray	Hutchinson, Kans.
Allen, R. Emmet	Bangor	A.B. (University of Kansas) 1917	
A.B. 1918		5th yr-U C Hospital, S F	Snst 8600
3rd yr-1386 Eleventh av, S F	Snst 756	Brown, Lucille Ynez	Santa Maria
Amsbaugh, Archie E.	Newman	1st yr-2736 Haste st, B	Bkly 8680
1st yr-Merritt Hospital, O	Pied 110	Browning, Erma Birdine	Sierra Madre
Appledorn, Harry H.	Berkeley	1st yr-2421 Durant av, B	Bkly 1503W
A.B. 1918		Bruck, Edwin Louis	St. Helena
3rd yr-1450 Sixth st, B	Bkly 6419W	A.B. 1916	
Arnold, Hubert R.	Seaside, Ore.	5th yr-U C Hospital, S F	Snst 3600
A.B. 1918		Burden, Herbert S.	Berkeley
2nd yr-1281 Second av, S F	Snst 628	A.B. 1919	
Arnot, Philip Howard	Placerville	2nd yr-2812 Derby st, B	Bkly 2423W
A.B. 1916		Burns, Thomas Stanley	San Francisco
5th yr-U C Hospital, S F	Snst 3600	A.B. (St. Ignatius University) 1918	
Atkinson, Dorothy Wells	Tacoma, Wn.	3rd yr-846 Lake st, S F	Pac 985
A.B. 1916		Burr, Ruth	Sacramento
5th yr-U C Hospital, S F	Snst 3600	A.B. 1915	
Atsatt, Rodney F.	Los Angeles	5th yr-S F Hospital, S F	Man 827
A.B. (Pomona College) 1918; M.A. 1918		Burrall, George H.	Los Angeles
1st yr-2350 Prospect st, B	Bkly 3620J	A.B. 1919	
Ayers, Thomas Fred	San Francisco	2nd yr-1867 Third av, S F	
B.S. 1914		Childress, Marmion Hugo	Berkeley
5th yr-S F Hospital, S F	Man 827	A.B. 1917	
Babcock, Edward S., Jr.	Riverside	4th yr-Relief Home, S F	Snst 1580
2nd yr-San Carlos		Chisholm, William H.	Twin Falls, Idaho
Ball, Dexter R.	Santa Ana	A.B. 1918	
A.B. 1916		3rd yr-2021 University av, B	
4th yr-1425 Fifth av, S F		Coblentz, Zach Benjamin	Santa Maria
Ball, John Dryer	Santa Ana	A.B. 1917	
A.B. 1918		4th yr-1248 First av, S F	Snst 1141
3rd yr-131 Hugo st, S F	Snst 8077	Cooke, Alma Locke	Oakland
Baxter, Geoffrey Haslam	Berkeley	B.S. 1911	
1st yr-250 Tunnel rd, B	Bkly 378	5th yr-S F Hospital, S F	Man 827
Belt, Arthur Elmer	Huntington Park	Cutter, Robert K.	Berkeley
A.B. 1916		1st yr-1321 Spruce st, B	Bkly 2231
4th yr-1380 Sixth av, S F	Snst 557	Dart, Arthur Edward	Berkeley
Bender, William Lee	San Francisco	A.B. 1919	
A.B. 1918		2nd yr-1410 Eighth av, S F, Apt. 7	
3rd yr-1226 Third av, S F	Snst 2818	Davis, Elizabeth Adelaide	Berkeley
Berwick, C. Coleman	Berkeley	B.S. 1911	
A.B. 1917		2nd yr-100 Judah st, S F	Snst 1272
4th yr-136A Parnassus av, S F		Davis, Nelson C.	Ceres
Bingaman, William Henry	Gonzales	A.B. 1917	
A.B. 1918		3rd yr-1579 Tenth av, S F	Snst 3515
4th yr-1425 Fifth av, S F			

Davis, Randolph	St. Mary's, Ontario, Canada	
5th yr- S F Hospital, S F	Msn 827	
Davison, Stuart Toussaint	San Francisco	
A.B. 1918		
2nd yr-1942 Bush st, S F	Flmr 2318	
Delamere, Granville S.	Berkeley	
A.B. 1917		
3rd yr-2612 Piedmont av, B		
Delprat, Guillaume Daniel, Jr.	Melbourne, Australia	
A.B. 1918		
2nd yr-1281 Second av, S F		
Dement, Donald Eugene	San Diego	
11 Med-2625 Hearst av, B	Bkly 4025	
Dement, John C., Jr.	San Diego	
A.B. 1916		
4th yr-2214 Dan's st, B	Bkly 1347	
Desmond, Matthew Francis	Burney	
2nd yr-Relief Home, S F	Snst 1580	
DeYoung, Isabel May	Lodi	
1st yr-2749 Dwight way, B	Bkly 204	
Dick, Philip Joseph	Fresno	
A.B. 1918		
3rd yr-1321 Fourth av, S F	Snst 1953	
Donald, William Goodricke	Tacoma, Wn.	
B.S. 1911		
2nd yr-650 Parnassus av, S F	Snst 423	
Dormody, Hugh F.	Placerville	
A.B. 1917		
3rd yr-1425 Fifth av, S F		
Dorn, Beatrice Ellen	San Francisco	
1st yr-562 Tenth av, S F	Pac 5486	
Dorn, John Harold	San Francisco	
2nd yr-Stanford Court apts, Powell and California sts, S F	Krny 769	
Doyle, Simon A.	San Francisco	
1st yr-732 Castro st, S F	Valen 1878	
Dunievitz, Max	Denver, Colo.	
1st yr-2223 Union st, B		
Emery, Claude Edgar	San Francisco	
1st yr-2214 Union st, B	Bkly 2483	
Epstein, Norman Niesen	San Francisco	
2nd yr-561 Waller st, S F	Park 1285	
Farrington, Efner Dwight	Claremont	
A.B. 1919		
2nd yr-Relief Home, S F	Snst 1580	
Faulkner, William B., Jr.	Stockton	
2nd yr-1554 Haight st, S F	Park 5704	
Flynn, Southard Tolchard	Berkeley	
2nd yr-1550 Oxford st, B	Bkly 2955	
Foler, Bertha Vivian	Long Beach	
1st yr-2229 Chapel st, B		
Fowler, Charles Beebe	San Francisco	
A.B. 1916		
5th yr-S F Hospital, S F	Msn 827	
Franky, Mervyn Francis	Grass Valley	
A.B. 1916		
5th yr-S F Hospital, S F	Msn 827	
Geiermann, Leona	Pasadena	
1st yr-2601 Virginia st, B	Bkly 2502W	
Gibson, Leila Emogene	Ukiah	
1st yr-2731 Regent st, B	Bkly 2075	
Gibson, Thomas Essington	Ojai	
A.B. 1918		
3rd yr-1281 Second av, S F		
Gidoll, Sidney Henry	Stockton	
A.B. 1919		
2nd yr-1264 Sixth av, S F	Snst 892	
Glaser, Mark Albert	San Francisco	
2nd yr-773 Pine st, S F	Krny 4523	
Graham, Hervey King	Berkeley	
1st yr-2611 Webster st, B	Bkly 4130J	
Gregory, Waldron Ashley	Berkeley	
A.B. 1916		
4th yr-Hotel Whitecotton, B	Bkly 7300	
Gunderson, George Oliver	Oakland	
2nd yr-2803A Telegraph av, B		
Haight, Frank Kelsey	Fortuna	
A.B. 1918		
1st yr-2603 Milvia st, B	Bkly 7480J	
Hall, Charles C.	Portland, Ore.	
A.B. 1916		
3rd yr-Relief Home, S F	Snst 1580	
Hall, Horace J.		
Newton, Bonavista Bay, Newfoundland		
4th yr-S F Hospital, S F	Msn 827	
Hanson, Samuel	San Francisco	
A.B. 1919		
2nd yr-1704 O'Farrell st, S F		
Harbinson, J. Edward	Sacramento	
A.B. 1918		
3rd yr-1259 Fourth av, S F	Snst 3397	
Hardgrave, Lloyd Elliott	Taylorville	
5th yr-U C Hospital, S F	Snst 3600	
Harris, Franklin Isadore	San Francisco	
A.B. 1917		
4th yr-291 Carl st, S F	Mrkt 2085	
Havener, Ethel Wilson	Berkeley	
2nd yr-2318 Telegraph av, B	Bkly 5964	
Hensel, George Carl	Eureka, Utah	
A.B. 1918		
3rd yr-1321 Fourth av, S F	Snst 1953	
Hodgkin, Philip	Stockton	
3rd yr-1321 Fourth av, S F	Snst 1953	
Holcomb, William Frederick	San Diego	
2nd yr-1367 Third av, S F		
Hoobler, Hal Rexford	Bay City, Mich.	
B.S. 1913		
4th yr-Mt. Zion Hospital, S F	West 7200	
Hosford, George Newton	Riverside	
A.B. 1918		
2nd yr-2538 Durant av, B	Bkly 8361W	
Hosmer, Matthew Newell	Turlock	
12nd yr		
Hoyt, Hubbard Spencer	Pacific Grove	
A.B. 1917		
4th yr-1252 First av, S F	Snst 1658	

Hoyt, Werner Fletcher A.B. 1919 2nd yr-854 Cole st, S F Park 6864	Oakland	Lum, Donald D. A.B. 1919 2nd yr-1367 Third av, S F	Alameda
Hunt, Milan E. B.S. 1910 3rd yr-1801 Hayes st, S F	San Francisco	McGrath, Allen Kier A.B. 1919 2nd yr-1811 Berkeley way, B Bkly 2904	Berkeley
Hunter, Lucy Gorin 2nd yr-1130 Haight st, S F Park 6203	San Francisco	McKellips, Grace M. 1st yr-2318 Bancroft way, B	San Jose
Iki, George S. A.B. 1917 4th yr-85 Scott st, S F Park 6374	Berkeley	Macomber, Henry Wade A.B. 1918 1st yr-2617 Cedar st, B Bkly 2002W	Alameda
Jeffry, Demetrio Eugene A.B. 1917 4th yr-Mt. Zion Hospital, S F West 7200	Healdsburg	Macpherson, Fraser Lapp A.B. 1918 3rd yr-1391 Fifth av, S F Snst 700	San Diego
Johnson, Clark Moore 1st yr-Fabiola Hospital, O Pied 162	San Diego	Magee, George Richard A.B. 1919 2nd yr-820 Thirty-sixth av, O	Los Angeles
Jones, O. W., Jr. 1st yr-2627 Ridge rd, B Bkly 2541	San Anselmo	Maggis, Frederick George 5th yr-U C Hospital, S F Snst 3600	San Francisco
Keith, Charles Frank A.B. 1916 4th yr-6023 Colby st, O Pied 774W	Berkeley	Mah, Margaret K. 1st yr-3050 Hillgass av, B Bkly 1677W	Berkeley
Kennedy, Karl Eliot A.B. 1918 3rd yr-1258 Fourth av, S F Snst 3397	Los Angeles	Martin, Robert Carson A.B. 1916 5th yr-U C Hospital, S F Snst 3600	Portland, Ore.
Key, William Amos B.S. (Occidental College) 1916 3rd yr-Relief Home, S F Snst 1580	Fullerton	Meherin, Joseph Minton 2nd yr-307 Scott st, S F Park 3572	San Francisco
Kingston, John J. 4th yr-320 Pierce st, S F Mrkt 5193	San Francisco	Mensor, Merrill Coleman 2nd yr-306 Parnassus av, S F Park 8917	Berkeley
Kiskadden, William S. A.B. (Wabash College) 1916 3rd yr-1439 Fifth av, S F Snst 2103	Tulsa, Okla.	Mentzer, Stanley Herman 2nd yr-4428 Twenty-third st, S F	San Francisco
Kitsuda, Frank Y. A.B. 1916 4th yr-1291 Stanyan st, S F Park 4753	San Francisco	Merrill, Belle Ellingsen 5th yr-S F Hospital, S F Msn 827	Oakland
Kiyasu, Kunisada A.B. 1916 4th yr-1291 Stanyan st, S F Park 4753	Anaheim	Merrill, John Althouse 1st yr-Hotel Whitecotton, B Bkly 7300	Albany, Ore.
Krusich, Georgia Norriess 1st yr-2525 Durant av, B Bkly 1969	Los Angeles	Mentzer, Mildred 1st yr-1261 Guerrero st, S F Valen 5930	San Francisco
Kutzmann, Adolph A. A.B. 1918 3rd yr-1423 Ninth av, S F Snst 3335	Los Angeles	Mohs, Oscar Kempfer A.B. 1916 5th yr-U C Hospital, S F Snst 3600	San Francisco
Larson, Ewald A. A.B. 1916 4th yr-Relief Home, S F Snst 1580	Kingsburg	Montgomery, Melville Lawrence 1st yr-2425 Bancroft way, B Bkly 1743	Simi
Lawson, Theodore Carey 1st yr-1606 Milvia st, B Bkly 4902W	Berkeley	Morrissey, Edmund J. A.B. (St. Ignatius College) 1917 3rd yr-1844 Laguna st, S F Flmr 778	San Francisco
Lessard, Mark Davis 2nd yr-1444 Eighth av, S F	Alameda	Morse, Harold A. 1st yr-2333 College av, B Bkly 1722	Oakland
Lockwood, Marion Dwight A.B. 1918 3rd yr-1212 Arguello blvd, S F Snst 674	Pasadena	Muldoon, Madeline Ann A.B. 1917 1st yr-2417 Blake st, B Bkly 6976	Berkeley
Locke, Charles Edward, Jr. A.B. 1916 5th yr-U C Hospital, S F Snst 3600	Los Angeles	Nakayama, Joseph Thomas 1st yr-551 Seventh st, O	Oakland
Lord, Dorothy Cerita 1st yr-2803 Regent st, B Bkly 4132W	Berkeley	Ness, John Andreas LL.B. (University of Minnesota) 1911 2nd yr-1000 Hyde st, S F Frkn 3700	San Francisco
Loutzenheiser, John Joyce A.B. 1918 3rd yr-1391 Fifth av, S F Snst 700	Oakland	Newman, Willard H. A.B. (Stanford University) 1918 3rd yr-1501 Eighth av, S F Snst 2042	San Diego
		Norman, Guido Frederick 2nd yr-746 Shrader st, S F Mrkt 3854	Eureka
		O'Connor, Thomas Charles, Jr. 1st yr-926 Tulare st, B Bkly 8195W	Reno, Nev.

Olsen, Elwood Richard	San Francisco	Sharpstein, Jay Randolph	San Francisco
A.B. 1918		A.B. 1917	
3rd yr-153 Alpine ter, S F	Mrkt 1121	4th yr-131 Hugo st, S F	Snst 2619
Oviedo, George Francis	San Francisco	Shaw, Edward B.	Oakland
2nd yr-182 Appleton av, S F	Valen 5248	A.B. 1917	
Oviedo, Louis Jerome	San Francisco	4th yr-Mt. Zion Hospital, S F	West 7200
A.B. 1918		Sheldon, Eberle Charles	San Francisco
2nd yr-132 Appleton av, S F	Valen 5248	A.B. 1918	
Patterson, Gilbert L.	Stockton	3rd yr-1276 Seventh av, S F	Snst 1732
A.B. 1918		Shepardson, Harry Clare	Alameda
3rd yr-1821 Fourth av, S F	Snst 1953	1st yr-2119 Eagle av, A	Ala 1824
Pearce, Carlyle Melville	Oakland	Shier, Cyril Winfred	Pasadena
A.B. 1918		2nd yr-1264 Sixth av, S F	
1st yr-1535 E Fourteenth st, O	Mer 4283	Shuey, Paul Baldwin	Oakland
Pearl, Felix L.	San Francisco	A.B. 1918	
A.B. 1919		3rd yr-1829 Adeline st, O	Oakd 4817
2nd yr-241 Eleventh av, S F	Pac 1136	Silberman, Henry	San Francisco
Pelkan, Karl Francis	San Francisco	4th yr-1372 McAllister st, S F	West 4066
2nd yr-814 Cole st, S F		Silver, Milton	Los Angeles
Pendleton, Lois	Los Angeles	A.B. 1918	
A.B. 1916		3rd yr-1258 Fourth av, S F	Snst 3397
5th yr-S F Hospital, S F	Man 827	Silverberg, Morris Harold	San Francisco
Potter, Clarence Griffith	San Francisco	4th yr-810 McAllister st, S F	Mrkt 5611
4th yr-836 Clayton st, S F	Park 3715	Simon, Charles Joseph	San Francisco
Pratt, Benjamin Harrison,	Topeka, Kans.	2nd yr-1375 Page st, S F	Park 2720
B.S. 1914; M.S. 1915		Simpson, Miriam Elizabeth	Oakland
2nd yr-959 Peralta av, B		A.B. 1915; M.A. 1916	
Preble, Jessie L.	Berkeley	2nd yr-100 Judah st, S F	Snst 1272
A.B. 1918; M.A. 1917		Skelton, Leonard William	Pasadena
*2nd yr-100 Judah st, S F		A.B. 1919	
Randolph, Victor Strong	Oakland	1st yr-2248 Telegraph av, B	Bkly 9011
A.B. (Milton College) 1915; A.B. 1919		Smith, Harry P.	San Francisco
2nd yr-1425 Fifth av, S F		A.B. 1916	
Raphael, James Clarence	Berkeley	3rd yr-301 Hugo st, S F	
A.B. 1919		Smith, Sydney Kinnear	Berkeley
1st yr-3019 Harper st, B	Bkly 1641J	A.B. 1918	
Reische, Alverda Elva	Meridian	3rd yr-1281 Second av, S F	Snst 623
A.B. 1915		Smyth, Francis Scott	Portland, Ore.
5th yr-U C Hospital, S F	Snst 3600	A.B. 1917	
Rohrbacher, George Henry	Stockton	2nd yr-1398 Fifth av, S F	
1st yr-2401 Durant av, B	Bkly 6504	Solomon, Alfred P.	Oakland
Sanderson, George H.	Stockton	1st yr-1013 Sixtieth st, O	Pied 6306W
3rd yr-1439 Fifth av, S F	Snst 2103	Soto-Hall, Ralph	San Francisco
Schluter, Hans Frank	Orland	2nd yr-2195 Green st, S F	Fimr 2618
A.B. 1918		Spencer, Helen Ward	Berkeley
3rd yr-1277 First av, S F	Snst 173	A.B. 1919	
Schofield, Richard O.	Sebastopol	2nd yr-100 Judah st, S F	Snst 1272
A.B. 1918		Stafford, Henry Edwin	Salinas
3rd yr-1437 Sixth av, S F	Snst 963	3rd yr-1381 Third av, S F	
Scribner, Richard George	San Francisco	Stannard, Amy Nivison	Ashland, Ore.
A.B. (Indiana University) 1917		A.B. 1918	
4th yr-41 Woodland av, S F	Park 2767	2nd yr-1055 Fell st, S F	
Seaton, Stuart Phillips	Berkeley	Stellar, Robert Woodley	Eagle Rock City
2nd yr-1512 Holly st, B	Bkly 8638W	B.S. (Occidental College) 1919	
Shafer, Frederick Paxton	El Centro	1st yr-2285 Chapel st, B	Bkly 2928W
A.B. 1915		Sugiyama, Yoshiji	San Francisco
4th yr-3730 Sacramento st, S F		1st yr-1739 Euclid av, B	Bkly 6441
Sharp, Paul Winning	Fort Jones	Sutter, Monroe	Berkeley
1st yr-1640 Euclid av, B	Bkly 7057	3rd yr-438 Waller st, S F	Park 3475

Taylor, Emmet C. A.B. 1918 3rd yr-1277 First av, S F	Grass Valley Snst 3490	van Horne, Homer I. A.B. 1918 4th yr-Hotel Whitcomb, S F	San Francisco Mrkt 510
Tharp, Samuel Eugene 1st yr-2400 Dana st, B	Lemoore Bkly 2388	Wagner, Henry Francis 3rd yr-1511 Shrader st, S F	San Francisco Park 599
Thomas, Bert Stanford A.B. 1916 5th yr-U C Hospital, S F	San Francisco Snst 3600	Walker, Dean McLaughlin 1st yr-2625 Hearst av, B	Willows Bkly 9585
Thompson, Claude Verner A.B. 1917 4th yr-1281 Second av, S F	Orland Snst 628	Ward, Agnes Dolores A.B. 1919 2nd yr-2702 Fulton st, B	Berkeley Bkly 1867J
Tompkins, Eleanor M. A.B. (Vassar College) 1916 3rd yr-1406 Sixth av, S F	Pasadena Snst 1621	Ward, Robertson 1st yr-2601 Channing way, B	Los Angeles Bkly 5904
Torrano, Michael Angelo 3rd yr-1348 Seventh av, S F	Oakland Snst 97	Warren, Stafford Leak A.B. 1918 2nd yr-Hooper Foundation, S F	Hayward Snst 3600
Torrey, Frances A. A.B. 1915 2nd yr-100 Judah st, S F	Berkeley Snst 1272	Watson, Allan Raymond A.B. 1918 1st yr-2627 Ridge rd, B	Eureka Bkly 2541
Trask, Parker Davies A.B. (University of Texas) 1917 2nd yr-1502 Alice st, O	Oakland Oakd 8205	Welch, Elwyn H. A.B. (Pomona College) 1918 1st yr-2717 Haste st, B	Pomona Bkly 586
Trayer, Chauncey M. A.B. (Olivet College) 1918 2nd yr-1381 Third av, S F	San Francisco	Wells, Earl Willson A.B. 1919 1st yr-2233 Ellsworth st, B	Los Angeles Bkly 293W
Trimble, Harold Guyon 5th yr-U C Hospital, S F	Oakland Snst 3600	Wisner, Francis Preston A.B. 1919 2nd yr-1281 Second av, S F	Berkeley Snst 623
Trotter, Robert Thackwell A.B. 1919 1st yr-2826 Garber st, B	Walsh, Alberta Bkly 3058	Wood, George Joseph 1st yr-2122 Bancroft way, B	Tulare
		Yocom, Frank Willis B.S. (South Dakota State College) 1910 3rd yr-577 Geary st, S F	Pasadena Pspt 3093

3. GEORGE WILLIAMS HOOPER FOUNDATION FOR MEDICAL RESEARCH

Carrier, Emily Beatrice A.B. 1918 100 Judah st, S F	Santa Barbara Snst 1272	Lee, Frank Warne 1281 Second av, S F	Berkeley Snst 623
Heller, Hilda Hempl A.B. (Stanford University) 1918; M.S. (University of Michigan) 1915; cand. Ph.D. (research medicine) 1208 First av, S F	Palo Alto		

4. CURRICULUM FOR NURSES

UNIVERSITY OF CALIFORNIA HOSPITAL, SAN FRANCISCO

NOTE.—Students registered herein are candidates for the Degree of Bachelor of Science, College of Letters and Science; all are resident at the University of California Hospital, San Francisco; telephone Sunset 3600.

Burket, Elizabeth	Berkeley	McCleary, Mary	Berkeley
Davidson, Marjorie	Alhambra	McMillin, Iva	Berkeley
Illig, Margaret	Berkeley	Peck, Marguerite	Martinez
Keith, Madeline	Oakland	Vernon, Violet	Berkeley
Kelsey, Anne H.	Berkeley		

5. LOS ANGELES MEDICAL DEPARTMENT

NOTE.—All addresses are in Los Angeles unless stated to be elsewhere. Students may be reached by telephone through the Los Angeles County Medical Association Telephone Exchange (Main 7675 and 60789).

Abbott, John	Los Angeles	Duncan, Edgar O.	Fredona, Kans.
M.D. (Jefferson Medical College) 1905		M.D. (Beaumont Hospital Medical College) 1901	
5161 Hollywood blvd			
Bower, Charles F.	Hartford, S. D.	Edwards, Henry	Los Angeles
M.D. (George Washington University) 1907		M.D. (Bellevue Hospital) 1897	
		323 Marsh Strong bldg	
Brunig, Henry	Hillsboro, Kans.	Ellis, Arthur J.	Los Angeles
M.D. (Kansas City Medical College) 1898		M.D. (Northwestern University)	
Charleton, Cecil Floyd	Morenci, Ariz.	Elmore, E. H.	Rupert, Idaho
M.D. (Rush Medical School) 1910		M.D. (Indiana University) 1909	
Chisholm, Hugh	Vancouver, B. C.	Frankl, Julius	Fairview, Mont.
M.D. (McGill University) 1901		M.D. (Vienna) 1897	
Conner, J. W.	Seligman, Ariz.	Gage, Arthur	Los Angeles
M.D. (Southwestern University)		M.D. (Tufts Medical College) 1906	
Cook, Joseph W.	Redlands	Golding, Daniel	Fremont, Neb.
M.D. (University of Pennsylvania) 1910		M.D. (Jefferson Medical College) 1890	
Couterier, Joe	Los Angeles	Hummel, Albert A.	Los Angeles
D.O. (College of Osteopathic Physicians and Surgeons) 1917		D.O. (College of Osteopathic Physicians and Surgeons) 1915	
		7878 Norton av	
Crutcher, Clarence	Polson, Mont.	Jewell, Robert	Los Angeles
M.D. (Vanderbilt University) 1909		M.D. (University of Iowa) 1892	
Dakudoa, Santiago	Dingle, Iloilo, P. I.	Kelly, J. N.	Los Angeles
M.D. (Japan Medical College) 1918		M.D. (McGill University) 1908	
Davis, Charles Howard	Nogales, Ariz.	4695 Hollywood blvd	
M.D. (Barnes University, St. Louis) 1893		Kigley, Eugene A.	Cedar Rapids, Iowa
Dow, Julian N.	Arcola, Ind.	M.D. (Chicago Medical College) 1881	
M.D. (Bennett Medical College) 1915		Little, Elmer W.	Belding, Mich.
Duckett, Walter F.	El Paso, Tex.	M.D. (Grand Rapids Medical College) 1901	
M.D. (Northwestern University) 1894			

Loring, Frank M.	Artesia, S. D.	Shaffer, Carl	Los Angeles
M.D. (University of Michigan) 1885		M.D. (Iowa State University) 1908	
McClellan, William S.	Morning Sun, Iowa	Soule, A. A.	Klamath Falls, Ore.
M.D. (Rush Medical College) 1894		M.D. (University of Oregon) 1911	
McRitchie, Alfred	Killiker, Sask., Canada	Stainsby, Fred	Amjox, Canada
M.D. (Western University) 1911		M.D. (University of Toronto) 1911	
Martin, Claude	Rexburg, Idaho	Stratton, Asa	Exeter, Neb.
M.D. (Pacific Medical College) 1915		M.D. (Central Medical College) 1895	
Mercer, William E.	Liberty, Ill.	Taylor, C. S.	San Francisco
M.D. (Keokuk Medical College) 1906		D.O. (College of Osteopathic Physicians and Surgeons) 1917	
Miller, J. W.	Gibbons, Neb.	Teale, A. W.	Glendale
M.D. (Rush Medical College) 1905		M.D. (Iowa University) 1895	
Moxon, Frank	Los Angeles	Terrill, Clifford L.	Farmington
M.D. (Marquette University) 1916		M.D. (Hospital College of Medicine, Louisville, Ky.) 1908	
Murphy, William Roe	Los Angeles	Walker, Homer	Los Angeles
M.D. (University of Southern California) 1906		M.D. (Kansas City Medical College) 1905	
Nagasawa, Hisao	Los Angeles	Wallace, Lew E.	Los Angeles
M.D. (Nippon Medical College) 1910		M.D. (Medical College of Indiana) 1902	
Nast, Henry H.	Los Angeles	Wheeler, John M.	Shreveport, La.
M.D. (University of Denver) 1897		M.D. (University of Nashville) 1905	
Obara, Rynzo	Japan	Whitmore, Frank B.	Pasadena
M.D. (Chicago Hospital Medical College) 1919		M.D. (University of Illinois) 1898	
Pierce, Clarence W.	Los Angeles	Woodward, F. A.	Los Angeles
M.D. (University of Southern California) 1898		M.D. (Northwestern University) 1912	
Rohrig, John G.	Bennett, Iowa	Yandell, Harley	Phoenix, Ariz.
M.D. (State University of Iowa) 1909		M.D. (St. Louis University) 1911	
Rundell, Napoleon	Petaluma	Young, William R.	Ansley, Neb.
D.O. (Still College of Osteopathy) 1905		M.D. (University of Iowa) 1898	

6. COLLEGE OF DENTISTRY

NOTE.—All addresses in the following list are in San Francisco unless stated to be elsewhere. B, Berkeley; O, Oakland; A, Alameda; P, Piedmont. The superior figure, ¹, marks the names of students who are registered first half-year only; ², second half-year only.

Abbott, Olell E.	Ontario	Bardwell, Augustine Rodaniche	San Francisco
1st yr—1252 First av		3rd yr—2409 Webster st	
Adler, Osias	San Diego	Barz, Frank Albert	San Francisco
1st yr—841 Athens av, O		3rd yr—186 Alpine ter	Park 5850
Allen, F. Carlton	Upper Lake	Becker, Walter	Sacramento
1st yr—1643 Lake st	Pac 7013	2nd yr—226 Edgewood av	Park 5111
Allen, Howard E.	San Francisco	Bender, Robert E. Lee	San Francisco
1st yr—1336 Eleventh av	Snat 756	1st yr—1226 Third av	Snat 2813
Allen, Irving Robert	Berkeley	Berendsen, Ewald Adolph	San Francisco
2nd yr—1804 Grant st, B	Bkly 8929W	3rd yr—756 Divisadero st	West 3029
Anderson, George H.	Coalinga	Bettencourt, George L.	Mendocino
1st yr—809 Scott st		3rd yr—156 Beulah st	
Ardell, Olga Marian	San Francisco	Bjornstrom, Harold Hjalmar	Sausalito
2nd yr—1462 Funston av	Snat 2181	2nd yr—88 Bonita st, S	
Austin, Eric	Sacramento		
1st yr—858 Parnassus av			

Block, Thomas Ryan	Gridley	Conant, Ralph	Eureka
4th yr-1242A Second av	Snat 689	1st yr-788 Clayton st	
Bolger, William M.	San Francisco	Cook, Lawrence Weston	San Francisco
1st yr-28 Cole st	Pac 4691	1st yr-1878 McAllister st	
Bonner, George Edward	Fresno	Cook, Thomas W.	Berkeley
1st yr-856 Clayton st		1st yr-1807 Cedar st, B	
Boyle, Leo F.	San Francisco	Corlett, Ralph Walker	Riverside
1st yr-2129 Turk st	West 6050	1st yr-1851 Fifth av	
Boynton, John Collin	San Francisco	Cosgrave, Vincent	Burlingame
1st yr-526 Twenty-fifth av		1st year-517 Primrose rd, Burlingame	Bur 518R
Brandon, Baxter Brown	Flagstaff, Ariz.	Cosgriff, Richard J.	Escalon
1st yr-2026 Forty-first av, O Frvl 649W		1st yr-528 Kearny st	Krny 5500
Breslin, William	San Francisco	Cowan, Charles S.	Sacramento
1st yr-135 Third av	Pac 6044	1st yr-189 Parnassus av	
Britt, Vernon E.	San Francisco	Cress, Robert Rudolph	San Francisco
1st yr-1115 Scott st	Flmr 8184	4th yr-317 Twenty-ninth st	
Brown, Clements William	Clements	Cuneo, Alfred Eddie	Bakersfield
4th yr-226 Edgewood av	Park 5111	1st yr-1248 First av	
Brown, Marvin B.	Oakland	Dahlmann, Homer A.	Chico
1st yr-801 Alta Vista av, O Pied 5128W		1st yr-2253 Fulton st, B	Bkly 155W
Browne, James Homer	Etna Mills	Danerl, Andrew James	San Francisco
4th yr-226 Edgewood av	Park 5111	1st yr-1055 Powell st	Dgls 4457
Browning, Lester Edward	Point Reyes	Davies, Ellis Evans	Sacramento
1st yr-1248 Fifth av	Snat 721	2nd yr-1248 Fifth av	Snat 721
Buckmann, Clinton Enoch	Visalia	DeMarius, Charles Claude	Chico
1st yr-1406 Sixth av	Snat 2011	1st yr-732 Page st	
Burgess, Howard Harmon	Stockton	Detner, George Thomas	San Francisco
4th yr-100 Judah st	Snat 1272	2nd yr-4288 Twenty-third st	Val 5225
Burke, Francis Paul	San Francisco	Doell, Harold N.	Oakland
4th yr-1817 Fourth av		1st yr-866 Grand av, O	Oakd 7230
Burson, Fortune Nelson	San Francisco	Donkin, Elbert Beasler	Berkeley
2nd yr-171 Sixteenth av	Pac 798	2nd yr-2218 Dwight way, B Bkly 3495J	
Carmichael, Frank P.	Marysville	Dorn, Bernice	San Francisco
1st yr-840 Carl st		1st yr-562 Tenth av	Pac 5486
Casella, Frank G.	San Francisco	Dougherty, Samuel K.	Santa Rosa
3rd yr-1248 Fifth av	Snat 721	1st yr-864 O'Farrell st	Pspt 582
Cassell, Irving I.	San Francisco	Dunn, Albert Lawrence	Long Beach
1st yr-1788 Post st		1st yr-1051 Taylor st	
Cauch, Wilbur R.	San Jose	DuPertuis, Charles B.	San Francisco
3rd yr-109 Carl st		1st yr-1350 Pine st	Pspt 1645
Charmak, David Dewey	San Francisco	Dustin, Murray J.	Stockton
1st yr-1624 Sacramento st		1st yr-1024 Shrader st	
Chenu, Aaron C.	Sacramento	Erickson, Elwood Carl Romer	San Francisco
1st yr-1345 Fifth av	Snat 2408	1st yr-358 Lisbon st	Rand 3051
Cheas, James Martin	Albuquerque, N. M.	Eskeu, Elmer Walter	San Francisco
1st yr-428 Belvedere st		1st yr-447 Thirty-fourth av	Pac 5850
Chilcote, Lois L.	Berkeley	Falor, Mae	Eureka
3rd yr-2619 Ashby av, B Bkly 1252W		1st yr-156 Beulah st	
Chuck, George Campbell	San Diego	Farlinger, Clarence	Richmond
2nd yr-1248 Fifth av	Snat 721	1st yr-227 Second st, R	
Clayton, Lester B.	Chico	Fitzgerald, Linus C.	Missoula, Mont.
1st yr-525 Sixty-second st, O		1st yr-6200 Geary st	Pac 7418
Clemons, Raynor Chelsie	San Miguel	Flagg, Clarence Roland	Berkeley
1st yr-1022 Haight st	Mrkt 2722	3rd yr-1866 Eleventh av	
Close, Myron	San Francisco	Fleming, Willard Corwin	Alameda
1st yr-812 Scott st	Park 5859	2nd yr-1823 Santa Clara av, A	
Cochrane, Claude Tony	San Francisco	Foster, Herbert R.	Honolulu, T. H.
4th yr-200 Eureka st	Man 525	1st yr-1356 Post st	Frkn 2061
Coffield, William Jesse	Napa		
1st yr-Y M C A			

Fraher, Francis James	San Francisco	Jensen, Carroll	San Francisco
3rd yr-4120 Twenty-sixth st	Man 4882	1st yr-1239 Ninth av	Snat 55
Francis, Norbert Henry	San Francisco	Jordan, Albert Edward	San Francisco
1st yr-845 Capp st	Man 8800	2nd yr-1442 Fifth av	Snat 738
Frost, Donald A.	Willits	Jorgenson, Niels B.	Denmark
1st yr-2622 Haste st, B		1st yr-1025 Shrader st	
Ginocchio, Andrew	San Francisco	Junk, Arthur M.	San Francisco
1st yr-542 Eleventh av	Pac 7315	1st yr-8689 Seventeenth st	Mrkt 8625
Giron, Hecktor Guatemala City, Guatemala		Karageorge, Evangelo Basil	San Francisco
1st yr-1114 Masonic av		3rd yr-1373 Fourth av	
Gliebe, Francis James	San Francisco	Kazanjan, Ardashes Arthur	Fowler
1st yr-485A Third st	Grfd 1788	4th yr-646 Clayton st	
Goodell, Fred Elmer	Stockton	Kenney, Daniel H.	Oakland
3rd yr-1845 Fifth av	Snat 2408	1st yr-1410 Eighth av, O	Lksd 4481
Gorosh, Jacob	Vancouver, B. C.	Kershaw, Robert Edgar	Los Gatos
1st yr-156 Beulah st		2nd yr-1718 Fell st	
Granger, Archibald	Oakland	Kervin, Harold J.	San Francisco
1st yr-1225 E Twenty-fourth st, O		1st yr-1144 Larkin st	Frkn 3051
	Mer 967	Keyes, Edith Gertrude	Fresno
Greenberg, Abe	Stockton	1st yr-1040 Bush st	
1st yr-532 Ashbury av	Mrkt 7836	Knowles, Charles Beidenweg	Oakland
Griffin, Frank P.	Fowler	2nd yr-226 Edgewood av	Park 5111
1st yr-1253 Third av	Snat 741	Koenigsberg, Charles Wesley	Oakland
Hahn, Leroy Walter	Berkeley	2nd yr-328 Oakland av, O	Oakd 3045
4th yr-2331 Roosevelt av, B		LaPlace, Marcel George	San Francisco
	Bkly 7179W	4th yr-2581 Washington st	West 4573
Haley, John Mervyn	Berkeley	Latapie, Jean Pierre	San Francisco
4th yr-2316 Stewart st, B	Bkly 3599W	1st yr-2509 Lake st	
Hannah, Edith Pearl	San Francisco	Lee, Daniel	San Francisco
2nd yr-1750 Sacramento st	Papt 6397	1st yr-2259 Greene st	Flmr 2546
Harris, Edward Earl	Etna Mills	Lee, Fook Wing	Oakland
2nd yr-226 Edgewood av	Park 5111	3rd yr-265 Eighth st, O	
Havens, Alfred	San Francisco	Levin, Philip	San Francisco
1st yr-800 Bosworth st	Man 8418	2nd yr-1670 Fulton st	Flmr 477
Haw, Charles Cranston	San Jose	Leider, Solomon	San Francisco
1st yr-226 Edgewood av	Park 5111	1st yr-572 Bosworth st	Valen 4875
Hayashi, Hideki	Sacramento	Liang, James Fook	Fresno
3rd yr-1551 Post st	West 8227	1st yr-1012 Washington st	China 1246
Hendricks, Howard E.	San Francisco	Lincoln, Lloyd	Oakland
B.S. 1906		3rd yr-1894 Eighth st, O	Lksd 1009
4th yr-4981 Seventeenth st	Mrkt 4854	Lloyd, Arturo Leonard	San Francisco
Hewitt, Louis Arthur	Berkeley	1st yr-1270 Plymouth av	
3rd yr-1248 Fifth av	Snat 721	Logan, James	Modesto
Hirota, Iwao	Los Angeles	3rd yr-1248 Fifth av	Snat 721
1st yr-1526 Geary st	Flmr 792	Lorenz, Joseph Henry	Redding
Holmberg, Arthur Bernard	San Francisco	3rd yr-458 Frederick st	Park 7154
2nd yr-152 Park st	Man 5102	Losey, Oscar Irvin	Meridian
Huberty, Linus Ambrose	Lodi	2nd yr-1845 Fifth av	Snat 2408
2nd yr-1248 Fifth av	Snat 721	Love, Edward Lewis	Antioch
Hughes, George Alfred	Alameda	3rd yr-226 Edgewood av	Park 5111
2nd yr-1804 Elm st, A	Ala 4189J	Lumsden, Robert M.	San Francisco
Hurd, Rollin Edgar	Hoquiam, Wn.	1st yr-783 Clayton st	Park 6960
2nd yr-1248 Fifth av	Snat 721	Lux, Eleanor Marie	Berkeley
Inukai, Yoshiko	Oakland	1st yr-1940 Haste st, B	Bkly 253
2nd yr-474 Twenty-third st, O		Lyman, Theron James	Stockton
	Oakd 8207	1st yr-135 Carl st	
Irons, Westley G.	Richmond	McCord, Edwin James	Berkeley
2nd yr-880 Eighth st, R	Rehd 473	2nd yr-69 Domingo av, B	Bkly 4272W
January, John William	Vacaville	McGee, George F.	San Francisco
4th yr-226 Edgewood av	Park 5111	1st yr-216 Fourth av	Pac 4825

McGovern, William Palmer	Tacoma, Wn.	Parraga, Frank Richard	San Jose, Costa Rica
3rd yr-1345 Fifth av	Snst 2408	2nd yr-1114 Masonic av	
McGuinness, Albert Leo	San Francisco	Parry, Oswald	Redlands
2nd yr-1133 Geary st	Frkn 7116	1st yr-1345 Fifth av	Snst 2408
McKenzie, Malcolm M.	Oakland	Peck, Max	Russia
1st yr-575 Seventeenth av		4th yr-1529 Steiner st	
Mackler, Hyman	Willows	Peterson, Warren Carl	Oakland
1st yr-2065 Bush st		2nd yr-1200 E Twenty-fourth st. O	
McMillan, Stanley	Santa Cruz		Mer 2964
2nd yr-1833 Fifth av	Snst 747	Pohlman, Salem Camillo	Santa Rosa
Macy, Earl T.	Coalinga	2nd yr-10 Judah st	Snst 1673
1st yr-809 Scott st		Poling, Gary E.	Modesto
Mansfeldt, John H.	San Francisco	1st yr-814 Cole st	
1st yr-2590 Pine st		Power, Francis John	Vallejo
Manuck, Abe	El Verano	2nd yr-1333 Fifth av	Snst 747
1st yr-732 Eighth av	Pac 7548	Pritchard, Fred	San Francisco
Marsh, Norman Charles	San Francisco	1st yr-50 Irving st	Snst 620
1st yr-2152 Broderick st	Fhmr 3587	Purser, Louis M.	San Francisco
Marshall, Dealbert P.	Seattle, Wn.	1st yr-43 Clifford ter	Park 5775
1st yr-155 Oak st		Ragan, Walter J.	San Francisco
Martin, Mabel Emeline	Watsonville	1st yr-51 Hillway av	Snst 42
3rd yr-189 Hugo st	Snst 1670	Redd, Joseph William	Taft
Martin, Mary Katherine	Watsonville	1st yr-2229 Channing way, B	Bkly 12217
3rd yr-139 Hugo st	Snst 1670		San Francisco
Martin, Webster Hasbrouck	New York, N. Y.	Reilly, Phillip Aloysius	
		3rd yr-71 Coleridge st	
2nd yr-226 Edgewood av	Park 5111	Reynolds, Lloyd Berkley	East Auburn
Mathewson, Joseph Edward	Yreka	1st yr-506 Ashbury av	Park 7092
4th yr-226 Edgewood av	Park 5111	Reynolds, Wallace McKinley	Upper Lake
Mendelson, William	Petaluma	1st yr-1231 Fourth av	Snst 3456
1st yr-1160 Webster st		Ridenour, Irving	Stockton
Monti, Ivo Romeo	San Francisco	2nd yr-1264 Second av	Snst 1917
2nd yr-890 Broadway		Robinson, Louis	San Francisco
Moore, Howard H.	Stockton	2nd yr-1445 Oak st	
1st yr-1271 Tenth av		Robinson, Wilson E.	Sacramento
Morin, Hercule Cutler	San Francisco	1st yr-739 Ashbury av	
1st yr-616 Baker st	West 9587	Robles, Lolotte Delfina	Quezaltenango, Guatemala
Mortley, Walter S.	San Francisco		
3rd yr-397 Cortland av	Men 1648	1st yr-2649 Clay st	
Nagle, Hilton Alexander	Nelson, B. C.	Rockwell, Jason C.	San Francisco
1st yr-1248 First av		1st yr-503 Franklin st	Mkt 4374
Nasser, Henry Walter	San Francisco	Romero, Bertha	Berkeley
2nd yr-3719 Sixteenth st	Mkt 9428	1st yr-1323 Bonita av, B	
Nathan, Jules Morris	Redding	Rosenweig, Joseph	San Francisco
3rd yr-155 Belvedere st	Park 5423	1st yr-566 Seventh av	Pac 7799
Newton, Robert Emmett	Sacramento	Rothenberg, Edward	San Francisco
2nd yr-50 Parnassus av		1st yr-1127 Jackson st	Frkn 5332
Ney, Colman A.	Vallejo	Russell, John Ray	Santa Rosa
1st yr-263 Central av	Park 812	1st yr-226 Edgewood av	Park 5111
Nuttman, Louis Charles	San Francisco	Ryan, Harold	Oakland
1st yr-869 Guerrero st		3rd yr-1511 Ninth st. O	
O'Connell, Aloysius John	Hollister	Saxby, J. Bert	Santa Barbara
3rd yr-2848A Fulton st		1st yr-1845 Fifth av	Snst 2408
O'Conner, Charles Aloysius	San Francisco	Schraft, Robert	San Francisco
2nd yr-341 Frederick st		1st yr-158 Tiffany av	Valen 3169
Paulsmier, Emma Otella	Alameda	Schwartz, Alexander	San Francisco
3rd yr-4 Portsmouth rd. A		1st yr-1627 McAllister st	West 3369
Parkinson, Lawrence	Berkeley	Seaman, Edward Milo, Jr.	Berkeley
1st yr-2711 Fulton st, B	Bkly 860J	4th yr-1323 Henry st, B	Bkly 4692W

Seelinger, Robert John	Winnemucca, Nev.		
1st yr-1442 Fifth av	Snst 738		
Shaffer, Henry J.	Yreka		
1st yr-1248 Fifth av	Snst 721		
Shafor, Carl G.	Berkeley		
1st yr-1314 Bayview pl, B	Bkly 6025W		
Shone, Lloyd B.	Palo Alto		
1st yr-331 Parnassus av			
Shelton, Harold Edgar	Vallejo		
1st yr-226 Edgewood av	Park 5111		
Skinner, Clem Williamson	Oakland		
3rd yr-5727 Dover st	Pied 373		
Smith, Earl Joseph	San Francisco		
1st yr-257 Collingwood st	Msn 9184		
Smith, Hugh Ian	Fortuna		
3rd yr-189 Parnassus av			
Smith, Felix Austin	Ahwahnee		
2nd yr-269 Parnassus av			
Smith, Raymond Eisenhart	Glendine, Mont.		
1st yr-1414 Post st	West 5900		
Smith, Robert	New Orleans, La.		
1st yr-1276 Eighth av	Snst 1061		
Smith, Vern V.	Santa Rosa		
1st yr-1248 Fifth av	Snst 721		
Soules, Guilford Harrison	Seattle, Wn.		
3rd yr-1845 Fifth av	Snst 2408		
Spridgen, William Austin	Petaluma		
2nd yr-1248 Fifth av	Snst 721		
Stabler, Chris E.	Redding		
1st yr-3155 Scott st			
Steadman, Eugene	Oroville		
1st yr-114 Broderick st			
Steffan, Everett F.	Oakland		
1st yr-3652 Foothill blvd, O	Frvl 1914W		
Stein, Sanford Jacques	San Francisco		
4th yr-3410 Geary st	Pac 2778		
Storm, Ralph	Salinas		
1st yr-1345 Fifth av	Snst 2408		
Sullivan, Gerald Xavier	San Francisco		
2nd yr-4442 Twentieth st	Msn 4310		
Sullivan, John E.	San Francisco		
1st yr-645 Cole st	Park 7077		
Sweet, Ben Franklin	Fresno		
3rd yr-746 Shrader st			
Teale, Byron	Riverside		
1st yr-1351 Fifth av			
Thatcher, Joseph Allyn	San Francisco		
3rd yr-1254 Eleventh av	Snst 1510		
Toffemire, Benjamin Franklin	Placerville		
3rd yr-1248 Fifth av	Snst 721		
Toft, George William	Mountain View		
1st yr-907 Haight st			
Tomasulo, Titus	San Francisco		
1st yr-1709 Stockton st			
Trachaler, Frank Arthur	San Francisco		
3rd yr-331 Capp st	Msn 5835		
Tremaine, Lloyd	Gilroy		
2nd yr-1845 Fifth av	Snst 2408		
Umhalt, Albert Christopher	San Francisco		
3rd yr-253 Diamond st	Valen 2848		
Van Buuren, John T. G.	Batavia, Java		
1st yr-2001 Alston way, B	Bkly 6710		
Van Deventer, Cyrus E.	Redlands		
2nd yr-889 Clayton st	Mrkt 2841		
Vitous, Clinton Robert	Puyallup, Wn.		
3rd yr-458 Frederick st	Park 7154		
Warren, Irvin Russell	Juneau, Alaska		
3rd yr-226 Edgewood av	Park 5111		
Weber, Arnold	San Francisco		
1st yr-1542 Jackson st	Frkn 5605		
Weinman, John George	San Francisco		
1st yr-384 Eureka st	Msn 2974		
Westbay, Clayton	Stockton		
4th yr-226 Edgewood av	Park 5111		
Wheeler, J. Hugh	St. Louis, Mo.		
1st yr-151 Belvedere st	Park 1818		
Williams, George A.	Berkeley		
1st yr-652 Fell st	Mrkt 7132		
Wollitz, Alfred E.	Oakland		
1st yr-1935 Webster st, O	Oakd 284		
Yoshino, Shotano	San Francisco		
3rd yr-1534 Geary st			
Young, Floyd A.	Oakland		
1st yr-1889 Jackson st, O	Oakd 2234		
Young, Ray Allen	Vallejo		
1st yr-Y M C A			
Zales, Joseph Edward	Oakland		
4th yr-1910 Forty-sixth av, O	Frvl 4705		
Zumwalt, A. James	Marysville		
1st yr-226 Edgewood av	Park 5111		

7. CALIFORNIA COLLEGE OF PHARMACY

Adams, Orson Howe	Etna Mills	Galvin, John Francis	San Francisco
2nd yr-1114 Pine st		2nd yr-49 Guerrero st	
Abraham, Paul Martin	Fresno	Gaskins, Hubert Raymond	Oroville
1st yr-826 Clayton st	Park 8698	2nd yr-900 Ashbury st	Mrkt 4281
Avenell, Charles P.	Fresno	Gasis, Gregory Nicolas	Leucas, Greece
1st yr-Twenty-fourth av	Snst 8651	1st yr-1449 Post st	
Balemi, Joseph	Santa Rosa	Glick, David Putnam	Los Angeles
2nd yr-900 Ashbury st	Mrkt 4281	1st yr-1241 Willard st	Park 896
Bascherini, John Omere	Sacramento	Glover, George Walter	Richmond
1st yr-509 Columbus av	Sutr 8632	1st yr-Richmond	
Betines, William Joseph	Shanghai, China	Greaver, James Clarence	Eldridge
1st yr-1859 Post st		1st yr-900 Ashbury st	Mrkt 4281
Biane, Henry Percy Claude	Visalia	Green, Roswald Andrew	Bishop
1st yr-900 Ashbury st	Mrkt 4281	1st yr-2396 Pacific av	Flmr 1918
Bigelow, Lorena Frances	Berkeley	Gresham, Ida Lillian	Boise, Idaho
1st yr-1835 Delaware st, B	Bkly 8404J	2nd yr-557 Belvedere st	
Borgstrom, Lee Edward	Oakland	Hall, Archibald Greiersen	Watsonville
1st yr-Home Club Park blvd, O	Mer 6	1st yr-1218 Fourth av	
Borgstrom, Roy	Oakland	Hall, Minor Winston	Richland Springs, Texas
2nd yr-Home Club Park blvd, O	Mer 6	1st yr-920 Magnolia st, O	
Brannagan, Arthur Joseph	San Francisco	Hansen, Katherine Margaret	Crescent City
2nd yr-3688 Twentieth st	Park 5622	1st yr-126 Fifth av	
Burns, Lafayette Ernest	Auburn	Heise, John Diedrich, Jr.	San Francisco
2nd yr-1959 Pine st	West 1293	1st yr-Franklin Hospital	Park 349
Buttgenbach, George Lee	San Francisco	Hilbert, George Fred	Paso Robles
2nd yr-354 Euclid av	Pac 6368	1st yr-900 Ashbury st	Mrkt 4281
Caesar, George William	San Francisco	Howe, Junior James Edward	San Francisco
1st yr-2725 Jackson st		1st yr-1251 Willard st	Park 1425
Cama, John Joseph	Archibald, Pa.	Hughes, Francis Bernard	San Francisco
1st yr-26 Jensen st		2nd yr-30 Carl st	Mrkt 9531
Caramella, Charles Joseph	San Jose	Irvine, Robert Julian	Sacramento
2nd yr-1898 California st		1st yr-1902 Ninth av	Snst 1839
Childs, Benjamin Wheaton	Santa Ynez	Ishikawa, Alfred Shonosuke	San Francisco
1st yr-220 Golden Gate av		2nd yr-1865 Pine st	
Christensen, Elsie Isabelle	San Diego	Kenney, Gladys Margaret	Petaluma
2nd yr-1680 Fell st	West 8923	1st yr-540 Twenty-sixth av	Bay View 838
Cianciolo, Anthony Joseph	San Francisco	King, Helen	Menlo Park
1st yr-2362 Pine st		2nd yr-91 Powell st	Park 770
Conn, Elmer George	Richmond	Knowlton, Rudolphus Clay	San Francisco
2nd yr-210 Martina st, R	Rchd 493W	2nd yr-900 Ashbury st	Mrkt 4281
Corsiglia, Charles Mavio	San Jose	Lampert, Josephine	Oakland
1st yr-2407 Mission st		2nd yr-1060 Eighteenth st, O	Lkcd 144
Crabtree, Lelia Gertrude	Knights Ferry	Lang, Bayard Bryan	Richmond
1st yr-600 Ashbury st		1st yr-600 McDonald av, R	Rchd 749
Cuthbertson, Frederic Charles	San Francisco	Latapie, Ernest Jules	Oakland
2nd yr-2255 Market st		1st yr-1579 Sixty-third st, O	Pied 3585W
Earhart, Charles Keith	Montague	Levy, Edward Walter	San Francisco
1st yr-900 Ashbury st	Mrkt 4281	2nd yr-680 Fifth av	Pac 1404
Eckhoff, Margaret	San Francisco	Lille, Henri Homera	San Francisco
2nd yr-18 Ramona st		1st yr-3312 Steiner st	
Farrell, James Hubert	San Francisco	Mahoney, Edward George	Berkeley
2nd yr-283 Guerrero st	Mrkt 6037	2nd yr-2009 Hearst av, B	
Fithian, Nelson Edward	Red Bluff	Maloney, William Peter	San Francisco
1st yr-350 Fifty-fifth st, O	Pied 3342	1st yr-3364 Twenty-first st	Man 7406
Fletcher, Harry Lewis	San Francisco		
2nd yr-875 Frederick st	Park 3835		

Massion, Jacob	Chugwater, Wyo.	Shatto, Dewey Pfister	San Jose
2nd yr-1668 O'Farrell st		1st yr-900 Ashbury st	Mrkt 4281
Meddaugh, George Wallace	Lakeport	Silva, Alphonse Frank	Centerville
1st yr-1709 Tenth st, B		1st yr-900 Ashbury st	Mrkt 4281
Melmon, Abraham Irving	San Francisco	Smith, Harry Francis	Fullerton
1st yr-1622 Eddy st	Flmr 1677	1st yr-525 O'Farrell st	Frkn 8464
Mino, George Francis	Richmond	Sneed, Maybelle Esther	Richmond
1st yr-1045 Montgomery st		1st yr-838 Macdonald av, R	Rchd 500
Mixer, Francis Earl	Exeter	Somersett, Robert Clinton	Albany
2nd yr-900 Ashbury st	Mrkt 4281	1st yr-524 Stannage av, Albany	Bkly 2967J
Momboisse, Raymond John Baptist	Petaluma	Spurgeon, Ellis Lawrence	San Francisco
1st yr-900 Ashbury st	Mrkt 4281	1st yr-1363 Seventh av	
Moore, Elizabeth Lucinda	Berkeley	Sutton, Paul Reginald	Maxwell
1st yr-2012 Hearst av, B	Bkly 5120	2nd yr-1114 Pine st	Pspt 4816
Mudgett, Helen Gushaw	Fortuna	Swansen, Ole Andreas	San Francisco
2nd yr-1261 Broderick st	West 8431	1st yr-169 Noe st	Mrkt 8875
McClure, Cedric Andrew	Red Bluff	Swim, Joseph Benjamin	San Francisco
2nd yr-1959 Pine st	West 1298	1st yr-1601 Haight st	
McKenna, William Morton	San Francisco	Takao, Hede	San Francisco
1st yr-747 Baker st		1st yr-758 Stockton st	Krny 2476
Oliver, Dwight	Oakland	Terrill, Samuel Miller Dold	San Francisco
1st yr-554 Sixty-third st, O	Pied 8727J	2nd yr-25 Judah st	Snst 2448
Overman, Marion Owen	Oakland	Thomas, Marie	Petaluma
1st yr-783 Sixty-fifth st, O	Pied 2608W	1st yr-1560 Union st	Frkn 9086
Page, Wallace Dimmick	Berkeley	Thomas, Vivian Loraine	San Francisco
1st yr-1422 Bonita av, B	Bkly 6890W	1st yr-172A Belvedere st	
Pampel, Harold Kenneth	Lodi	Treanor, Bert C.	Richmond
1st yr-900 Ashbury st	Mrkt 4281	1st yr-600 McDonald av, R	
Perry, Claymond August	Pleasanton	Verdi, Joseph Frederick	Berkeley
1st yr-900 Ashbury st	Mrkt 4281	1st yr-1145 Oxford st, B	
Reed, Paul Hope	San Mateo	Vernon, Percy Marlin	Berkeley
1st yr-30 Eleventh av, S M		2nd yr-2900 Russell st, B	
Reynolds, Bernice	Alturas	Vogelman, Cairns Howard	Modesto
1st yr-600 Ashbury st	Park 5626	2nd yr-900 Ashbury st	Mrkt 4281
Ross, Gustaf Adolf	San Francisco	Walker, James Herbert	San Jose
2nd yr-16 Whitney st		2nd yr-227A Downey st	
Rowe, Oliver Cecil	Sacramento	Watanabe, Kay Kinkichi	Sacramento
1st yr-1920 Ninth av	Snst 1839	2nd yr-1856 Sutter st	Flmr 4977
Sartori, Horace Joseph	San Francisco	Ward, William Francis	San Francisco
1st yr-156 Beulah st	Park 8084	2nd yr-2573 Post st	West 8320
Schoningh, Joseph Henry	Petaluma	Wells, Clara	Red Bluff
1st yr-900 Ashbury st	Mrkt 4281	2nd yr-1800 Page st	Park 4019
Schoenigh, Theodore James	Petaluma	Wells, Norma Chipman	Red Bluff
1st yr-900 Ashbury st	Mrkt 4281	2nd yr-1800 Page st	Park 4019
Schroeder, Benjamin Lawrence	San Francisco	Whitaker, Clarence Donald	San Rafael
2nd yr-1278 Tenth av	Snst 1266	2nd yr-126 Hugo st	
Scott, Ewell Fullerton	Selma	White, Millar Joseph Clarke	
2nd yr-1959 Pine st	West 1298	1st yr-3009 Telegraph av, B	Bkly 5709J
		Wigg, Grace	Wrangell, Alaska
		2nd yr-1911 Page st	
		York, Loren Vear	Ukiah
		1st yr-2612 Howard st	

8. SOUTHERN BRANCH

NOTE.—All addresses are in Los Angeles unless stated to be elsewhere.

JUNIOR COLLEGE CURRICULA

Aldrich, Lester	Los Angeles	Branner, Mildred	San Pedro
1 Com-R.F.D. Box 515	Boyle 8183	1 LS-5253 Beacon st, San Pedro	Sunset 47
Allen, Albert J.	Hollywood	Bransford, Minnie	Los Angeles
1 LS-959 N Normandie av	Holly 3875	1 LS-1142 W Twenty-fourth st	
Allraun, Juana	Los Angeles	Brennan, Bernard C.	Bellflower
1 LS-838 S Hope st	61072	1 LS	115
Ashbrook, Mary Louise	Alhambra	Bright, Beatrice	Los Angeles
1 LS-218 S Hidalgo, Alhambra Ala 616J		1 LS-762 Heliotrope dr	Wil 5937
Axtman, William F.	South Pasadena	Brown, Perry O.	Los Angeles
1 Com-1305 Monterey rd, S Pasadena		1 LS-924 Beatrice st	
	Colo 1805	Brundige, Lamont J.	Whittier
Baker, Elizabeth	Hollywood	1 Mec-114 E Hadley st, Whittier	212
1 LS-1219 June st		Bullock, Winifred	Los Angeles
Baker, Marion	Venice	1 Mec-7285 Compton av	S 4385M
1 LS-119 Paloma av, Venice	1505	Cambern, Carroll	Los Angeles
Banning, Wayne B.	Los Angeles	1 LS-2139 Kent st	Wil 5583
1 Mec-429 W Twenty-first st	West 2759	Campbell, Katharyn F.	Alhambra
Barnwell, David K.	Los Angeles	1 LS-608 S Second st, Alhambra	Ala 814J
1 LS-235 S Olive st	18402	Carlson, Blanche M.	San Pedro
Bartlett, George	Los Angeles	1 LS-271 Fifth st, San Pedro	582
1 Com-1214 S Lake st	West 890	Carlton, Ruth G.	Alhambra
Bassett, Lila E.	Los Angeles	1 LS-623 Washington st, Alhambra	Ala 265W
1 LS-5816 Gregory av	577138	Carter, Paul R.	Fresno
Baum, Helen	Los Angeles	1 LS-2619 W Eighth st	
1 LS-708 N Alexandria	599805	Case, Maud O.	Taft
Bear, Ben L., Jr.	Los Angeles	1 LS-Box 68	
1 Chem-1840 Allesandro st	Wil 3608	Caskey, Marjorie B.	Los Angeles
Becken May M.	Los Angeles	1 LS-1720 W Twenty-fourth st	71861
1 LS-1715 Echo Park av		Charnock, Irene	Pasadena
Bender, Samuel	Los Angeles	1 LS-388 Dearborn st, Pasadena	Colo 7388
1 LS-908 Irolo st	567556	Chase, Alfred F.	Alhambra
Bennison, Romaine A.	Los Angeles	1 Com-320 N Garfield av, Alhambra	Ala 128
1 LS PreL-1447 W 102 st		Churchill, Warren I.	Los Angeles
Berg, Helen L.	Los Angeles	1 Min-1133 Mignonette st	64652
1 LS-2621 Dayton av	East 1495	Clark, Charles D.	Whittier
Beymer, Chester H.	Riverside	1 Mec-549 Dorland st, Whittier	117
1 Mec-237 N Orange st, Riverside		Clifford, Edith A.	Pasadena
Binney, John O.	Los Angeles	1 LS-36 W Dayton st, Pasadena	Colo 8415
1 Mec-4050 Brighton av	Ver 1293	Cole, Byron J.	Los Angeles
Black, Iona	Indio	1 LS-1041 Gramercy dr	74814
1 LS-649 N Berendo st	41	Collins, Donald C.	Hollywood
Bliss, Howard C.	Los Angeles	1 LS PreM-7080 Lanewood av	Holly 271
1 LS PreM-6757 Sunset blvd		Collins, Katherine	Los Angeles
Bowen, George W.	Los Angeles	1 LS-197 S Westlake av	53663
1 Mec-185 S Normandie av	Wil 1801		
Brandt, Marie	Los Angeles		
1 LS-924 Park View st	53818		
Brannen, Philip	Los Angeles		
1 LS Pre M			

Collins, Lee H.	Monrovia	Fannon, Bernice E.	Alhambra
1 Chem-323 W Chester st, Monrovia		1 LS-334 N Monterey av, Alhambra	
Collins, Vernon J.	Whittier	Finn, Charles T.	Venice
1 Chem-124 E Hadley st, Whittier	8541	1 Mec-115 Breeze av	
Copeland, Reba	San Jacinto	Fisher, Angie F.	Hollywood
1 LS-1011 Edgemont dr		1 LS PreM-1257 La Brea av	Holly 2485
Coughlin, Paul	Pasadena	Fisher, William Heyl	Los Angeles
1 LS-256 Bellevue dr, Pasadena		1 Mec-431 S Lucas av	Main 8558
	Colo 7680	Forsyth, Robert L.	Long Beach
Cowlin, Donald	South Pasadena	1 Agr-235 W Twelfth st, Long Beach	1657
1 Min-1029 Avon pl, S Pasadena			
	Colo 8460	Franklin, Alta A.	Lankershim
Cox, Helen L.	Los Angeles	1 LS-Box 235, Lankershim	
1 LS-1122 W Fifty-sixth st	269212	Frick, Paul H.	Los Angeles
Crockett, Katharine	Pasadena	1 LS-Box 302, R. No. 12	Boyle 3511
1 LS-970 E Villa st, Pasadena		Frilton, Miriam	Alhambra
	Fair Oaks 2391	1 LS-2226 Baltimore av, Alhambra	861R
Cronin, Julia	Los Angeles	Gates, Harry Phelps	Los Angeles
1 LS-2511 Trinity st		1 LS PreL-323 S Hancock st	East 2515
Crowley, Dorothy N.	Los Angeles	Gibbons, Nell P.	Los Angeles
1 LS-1150 Lake st	Wil 576	1 LS-953 Menlo av	
Culp, Henry Pollard	Los Angeles	Gibbs, Silas P.	Long Beach
1 Mec-210 W Thirty-first st		1 Com-922 Locust st, Long Beach	
Cutshall, Rolland M.	Los Angeles	Gillespie, Ruth	Los Angeles
1 Com-1117 W Forty-ninth st	Ver 4931	1 LS-725 Heliotrope dr	Wil 2208
Daggett, Mary I.	Los Angeles	Glover, Cornelia	Los Angeles
1 LS-1251 Leighton av	77730	1 LS-4108 Halldale av	26205
Davis, Clifford M.	Los Angeles	Godshalk, Chester N.	Los Angeles
1 Com-615 Euclid av		1 Mec-2115 W Twenty-ninth pl	
Davis, Katharine	Los Angeles	Gordon, Donald A.	Los Angeles
1 LS-1559 Cassil pl		1 LS-926 W Fiftieth st	Ver 4201
Day, Charles A.	Los Angeles	Gordon, Dorothy M.	Thermal
1 Chem-969 W Forty-fifth st		1 LS-849 N Berendo st	599171
Delasasso, Leo	Los Angeles	Greene, Rosalind	Los Angeles
1 Mec-624 W Fifty-third st	Ver 3017	1 LS-1352 W Fifty-ninth st	26212
Desmond, Olga M.	Los Angeles	Greive, Herman F.	Los Angeles
1 LS-1137 N Kenmore av		1 Chem-8035 W Tenth st	74658
Deyoe, Ethel	Los Angeles	Gridley, Horace V.	Hollywood
1 LS-214 av 58	Garv 319	1 Chem-6818 Sunset blvd	577630
Dockweiler, George	Los Angeles	Grove, Margaret E.	Los Angeles
1 Mec-957 W Adams st	West 590	1 LS-144 Carr st	24898
Doke, Helen R.	Los Angeles	Gumprecht, Marjorie	Long Beach
1 LS-6836 Hawthorne av	Holly 2606	1 LS-1337 Olive av, Long Beach	1753R
Downs, Arthur S.	Los Angeles	Gunther, Lewis	Los Angeles
1 Mec-3989 Normandie av	Ver 1339	1 LS PreM-2427 Brooklyn av	41334
Dudley, Rhurark	Glendale	Hall, Frances M.	Lamanda Park
1 Chem-302 N Central av, Glendale		1 LS	Colo 6173
Edwards, Robert	Los Angeles	Hall, Margaret W.	Alhambra
1 LS-3677 Wilshire blvd	56128	1 LS-137 N Fifth st, Alhambra	580J
Einsig, Ben	Los Angeles	Haralson, James	Covina
1 Com-860 Madison av	Pico 700	1 Agr	932
Ernst, Carl C.	Los Angeles	Harper, Paul F.	Los Angeles
1 Mec-112 S Lincoln Park av		1 Mec-235 N Grand av	
Fairall, Alice C.	San Pedro	Harvill, Jesse P.	Glendale
1 LS-729 W Twenty-third st, S Pedro	467J	1 LS PreM-432 W Lexington dr, Glen-	dale
	467J		Glen 2270J
Fairbanks, Constance	Fillmore	Hawkins, Blanche A.	Pasadena
1 LS-427 N Vermont av	599413	1 LS-1271 La Pintoresca dr, Pasadena	Colo 2528

Hayes, Caroline	Los Angeles	Knox, Albert Whitney	Long Beach
1 Min-1689 W Adams st	71151	1 LS-1432 Linden av, Long Beach	1844W
Hayes, Frances	Los Angeles	Koch, George O.	Burbank
1 LS-1689 W Adams st	71151	1 Agr	
Helhoff, Linda J.	Los Angeles	Kohler, Ester L.	Pasadena
1 LS-1337 E Thirty-ninth st	S 459M	1 LS-895 N Catalina, Pasadena	
Hester, Louise A.	Glendale	Lake, Marjorie C.	Los Angeles
1 LS-203 Maple av, Glendale	386W	1 LS-182 S Virgil av	52590
Heyl, Harold W.	Los Angeles	Law, Daisy	Los Angeles
1 LS PreL-559 Heliotrope dr	599066	1 LS-779 Vine st	577611
Hill, Caroline	Los Angeles	Lewis, James Evans	Los Angeles
1 LS 2344 W Twenty-first st		400 E. Forty-first st	S 6115J
Hirsch, Joseph	Los Angeles	Lippmann, Melville W.	Los Angeles
1 Com-4421 G Lockwood st		1 Mec-1460 W Twenty-eighth st	72992
Ho, Perri Newton	Los Angeles	Logan, Chloe	Los Angeles
1 LS PreM-960 San Julian st		1 LS-R.R. No. 3, Box 515	
	Bdwy 3040	Logan, Helen	San Pedro
Hodges, Donald M.	Garvanza	1 LS-564 N Berendo st	Wil 3765
1 Min-5652 Baltimore st	Garv 876	McBurney, Raymond D.	Los Angeles
Hoose, Frank H., Jr.	Pasadena	1 LS PreM-616 E. Adams st	
1 LS PreM-1101 Indiana av, Pasadena	351417	McClanahan, Harold	Long Beach
Howell, Helen L.	Pasadena	1 Com-412 Orange st, Long Beach	
1 LS-974 Stevenson av, Pasadena	Colo 2058	McClaskey, Ross H.	Los Angeles
Huff, Eva F.	Long Beach	1 LS-4225 Budlong av	
1 LS-1232 N Alexandria st	25952	MacDonald, Mary E.	Los Angeles
Huff, Robert H.	Los Angeles	1 LS-3308 S Grand av	S 5346M
1 LS PreM-1445 W Twenty-fifth st		McGrane, Norman M.	Long Beach
	75912	1 Chem-912 Park circle, Long Beach	14547
Hughes, Anna	Pasadena	McKee, Mildred A.	Glendale
1 LS-1708 Las Lunas st, Pasadena		1 LS-515 Windsor rd, Glendale	Glen 377
Iiams, Thomas M.	Los Angeles	MacLeod, Allan R.	Pasadena
1 LS-Lamanda Park		1 CE-808 Milan av, Pasadena	35637
Jacobs, Gladys	Pasadena	McMillin, Doyle	Whittier
1 LS-767 First st, Pasadena	Colo 383	1 Mec-401 S Greenleaf, Whittier	
Jacobson, Abraham	Venice	McPherrin, Helen	Los Angeles
1 Chem-511 Brooks av, Venice		1 LS-1654 Golden Gate av	59281
James, Stewart D.	Compton	Mariscal, Joseph F.	Los Angeles
1 Com	56	1 Mec-733 E Fifty-fourth st	S 6121W
Johns, Dorothy E.	Eagle Rock	Marston, Charles	Los Angeles
1 LS-316 W Colorado blvd, Eagle Rock		1 Com-2307 Juliet st	W 5082
Johnson, Barbara Brooks	Pomona	Mattoon, Stanley F.	Hollywood
1 LS-800 N Normandie av		1 Eng-7364 Hollywood blvd	Holly 966
Johnson, Lois	Los Angeles	Meigs, Raymond G.	Long Beach
1 LS-16324 Council st	Wil 3483	1 Com-128 Junipero av, Long Beach	22022
Jones, Margaret K.	Alhambra	Merrill, Dorothy	Los Angeles
1 LS-25 N Wilson av, Alhambra	980M	1 LS-2577 W Twenty-third st	75069
Justice, Ross W.	Los Angeles	Miller, Arreen	Los Angeles
1 CE-1046 W Ninety-second st		1 LS-1527 W Twenty-second st	W 5206
Kaufman, Rose	Los Angeles	Miller, Elizabeth	Los Angeles
1 LS-735 S Alvarado st	Wil 3975	1 LS-1527 W Twenty-second st	W 5206
Keffler, George M.	Van Nuys	Miller, Gladys K.	Hollywood
1 Com-834 W Friar st, Van Nuys		1 LS-1768 Famarind av	Holly 2917
	Van Nuys 54	Miller, Kenneth	Los Angeles
Kiesling, Louis	Los Angeles	1 LS-659 N Berendo st	59127
1 CE-1661 Childs av			

Minthorn, Ethan H.	Los Angeles	Robertson, Helen Mary	Los Angeles
1 LS-1571 E Adams st	S 5687M	1 LS-4518 W Eighteenth st	
Moore, Elizabeth I.	Hollywood	Rogatsky, Gertrude	Pasadena
1 LS-1603 Highland av	57449	1 LS-169 Worcester av, Pasadena	
Morgan, Elder R.	Los Angeles		Fair Oaks 2951
1 Com-1861 W Thirty-eighth pl	Ver 6404	Rogers, Helen J.	Los Angeles
Munyon, Mabel E.	Eagle Rock	1 LS-983 W Forty-second st	26806
1 LS-133 S Hartwick av, Eagle Rock		Rose, Mary Edith	Long Beach
Murphy, Minnie Lois	Glendale	1 LS-277 Winnipeg pl, Long Beach	21491
1 LS-421 N Brand blvd, Glendale			
Needham, Marjorie	Los Angeles	Rosenbaum, Eleanor	San Juan Capistrano
1 LS-2002 Hillcrest rd	579196	1 LS PreM	
Nettleship, J. H. Raymond	Los Angeles	Rossell, Edward	Los Angeles
1 LS-Yale School, Union av	Wil 2436	1 LS PreL	
Nichols, Howard	Los Angeles	Salisbury, Mabel	Santa Monica
1 Agr-527 W av 53	Gar 705	1 LS-1227 Fourteenth st	
Nigh, George A.	San Fernando	Sanborn, Mildred	Los Angeles
1 CE-Route A, San Fernando		1 LS-2520 E Third st	Boyle 1840
Oeden, Hubert S.	Los Angeles	Schlatter, Hazel	El Centro
1 Mec-722 S Harvard blvd	Wil 2863	1 LS-645 Heliotrope dr	Wil 418
Oleson, Ed	Pasadena	Schuck, Russel	Long Beach
1 LS-601 N Michigan av, Pasadena		1 Com-1725 E Seventh st, Long Beach	27251
	Colo 6396		
Olney, Elbert Young	Ocean Park	Schultz, Leona	Los Angeles
1 Com-2608 Fourth st, Ocean Park	5023	1 LS-823 Bonnie Brae st	Wil 5500
Olsen, Freedom	Long Beach	Schurmer, Margaret	Los Angeles
1 LS-1639 Pacific av, Long Beach		1 LS-534 N Berendo st	Wil 2637
Ossian, Philip E.	Los Angeles	Sebastian, Katherine	Los Angeles
1 Com-1822 S Oxford av	W 2195	1 LS-1615 Winona blvd	Holly 2184
Ostrow, Ester	Los Angeles	Selig, Helen	Los Angeles
1 LS-1645 Cimmaron st	75344	1 LS-116 E av 42	E 1080
Paxton, Edith	Rivera	Sewell, Elizabeth	Los Angeles
1 LS		1 LS-1610 W Tenth st	
Peipers, Pauline	Los Angeles	Shaffer, Kenneth	Los Angeles
1 LS-1822 Crenshaw blvd	W 2054	1 Com-4447 Lockwood st	
Peirce, George G.	Los Angeles	Shapiro, Inez	Los Angeles
1 Chem-1229 W Fifty-first pl	Ver 4141	1 LS-1412 W First st	Bdwy 5505
Pitcher, Marion L.	Pasadena	Sheppard, Albert	Long Beach
1 LS-382 S El Molino av, Pasadena		1 Min-1117 Alamitos av, Long Beach	
	Colo 2034	Shepphird, George	Los Angeles
Porter, Harvey B.	Hollywood	1 CE-2000 Miramar st	557075
1 LS PreM-5606 Harold way	597730	Sherick, John	Los Angeles
Pumphrey, Lillian	Santa Ana	1 Mec-1427 Iowa st	579891
1 LS-1140 Lake st	Wil 4352	Shoemaker, Dan R.	Los Angeles
Putman, Gertrude	Los Angeles	1 LS-135½ S Vendome st	557214
1 LS-2147 Kane st		Sibile, Margaret	Los Angeles
Quinn, Patrick J.	Los Angeles	1 LS-1517½ Brooklyn av	Boyle 1135
1 CE-607 W Fortieth pl	288034	Simon, Randall, M.	Escondido
Rain, Emma T.	Blythe	1 LS PreM	19J1
1 LS-4251 Monroe st		Slocum, Herrick	Los Angeles
Rambo, David	Los Angeles	1 Com-1752 N Winona blvd	59381
1 Min-225 W av 52	Garv 1938	Small, Doris	Los Angeles
Rich, Irene L.	Los Angeles	1 LS-645 Heliotrope dr	Wil 418
1 LS-3507 Arroyo Seco av		Smiley, Grace	Santa Ana
Riegle, John	Los Angeles	1 LS-703 W Washington av, Santa Ana	
1 Chem	Ver 3992		859J
Roberts, James J.	Long Beach	Smith, Dorothy L.	Los Angeles
1 Com-2011 E Second st, Long Beach		1 LS-1111 W Fiftieth st	26624
	26604		

Smith, Helen A.	San Pedro	Viole, Yvette G.	Los Angeles
1 LS-568 Twelfth st, San Pedro		1 LS PreM	Bdwy 6096
Smith, Lorena	Van Nuys	Vultee, Gerard F.	Los Angeles
1 LS-Box 96		1 Mec-2206 Romeo st	W 1564
Smith, Martin, Jr.	Venice	Weber, Charles	Los Angeles
1 Mec-5605 Ocean Front, Venice		1 LS-403 N Occidental blvd	558645
Snyder, Ruth	Snat 1420	Weil, Jerold E.	Los Angeles
1 LS-1584 La Palmas av	Hollywood	1 LS PreM-1903 W Twenty-second st	74370
Stephens, Lee	Long Beach	Welcome, Claude	Los Angeles
1 LS-2410 E First st, Long Beach		1 Mec-5022 S Western av	Ver 6364
	Pac 25681	Wells, Helen	Los Angeles
Stephens, William H.	Montebello	1 LS-1811 Argyle av	579455
1 Min		Werne, Benjamin	Los Angeles
Stoddard, Dale	Los Angeles	1 LS-218 N Olive st	63747
1 LS-10404 W Forty-second st		Wernette, Philip John	Glendale
Stonebrook, Lois M.	South Pasadena	1 LS-1830 N Louise st, Glendale	Glen 1033
1 LS-1128 Windsor pl, S Pasadena			
	Colo 208	White, Lawrence F.	Los Angeles
Stratton, Lois	Hollywood	1 LS PreM-624 Lookout dr	Bdwy 742
1 LS-1769 Orange dr	57232	White, Minnie	Elsinore
Strout, Lester L.	Burbank	1 LS-528 N Berendo st	Wil 1275
1 LS	246W	Whittemore, Florence J.	Los Angeles
Sturtevant, Butler	Los Angeles	1 LS-1817 Arapahoe	54646
1 Agr-1847 Edgecliffe dr	599774	Wight, Hazel E.	Los Angeles
Szekler, Juliet M.	Los Angeles	1 LS-822 W Thirty-second st	
1 LS-817 S Olive st	10089	Wilkin, Lily A.	Los Angeles
Thompson, Caslon P.	Los Angeles	1 LS-4416 Stanford av	S 5476
1 Mec-3100 N Griffin av	E 1114	Williams, Medora	Los Angeles
Thompson, Frances	Los Angeles	1 LS-1615 Martel av	57273
1 LS-Shoreham Hotel	Wil 2041	Wilson, Elizabeth	Burnett
Thompson, Norman E.	Los Angeles	1 LS	1823W
1 Com-2119 Michigan av	Boyle 118	Wilson, Marion	Los Angeles
Thorpe, Ruth	Hollywood	1 LS-1337 Liberty st	
1 LS-5502 Santa Monica blvd	597125	Woodard, Norris C.	Long Beach
Tipton, Gwynethe	Los Angeles	1 Com-642 E Tenth st	162333
1 LS-559 N Vermont av		Woodruff, Helen Nancy	Los Angeles
Tipton, Sterling J.	Los Angeles	1 LS-1616 Martel av	577460
1 LS-559 N Vermont av		Wright, Clarence	Los Angeles
Tritt, Margaret	Los Angeles	1 LS-1615 Buckingham rd	72090
1 LS-1841 Cimmaron st	72069	Wrisley, Cecil	Los Angeles
Trout, George G.	Burbank	1 LS-707 W Thirty-sixth st	25227
1 LS	22W	Wyatt, Harold T.	San Fernando
Tyson, Frances	Santa Monica	1 Mec-1329 W Thirtieth pl	
1 LS-942 Seventh st, Santa Monica			

TEACHERS' CURRICULA

NOTE.—The curriculum in which the student is enrolled is indicated as follows: Coml, Commercial; El Mus, Elementary Music; FA, Fine Arts; GP, General Professional; HE, Home Economics; Kgn, Kindergarten; MA, Manual Arts; Mech A, Mechanic Arts; PE, Physical Education; SH, courses supported by the Smith-Hughes Act. The following abbreviations are also used: Bdwy, Broadway; Colo, Colorado; F O, Fair Oaks; Garv, Garvanza; Glen, Glendale; Holly, Hollywood; Ver, Vermont; Wil, Wilshire.

Abbey, Bessie	Los Angeles	Amundson, Alfred	San Pedro
1 GP-4451 Lockwood av		1 HE, GP-564 Berendo st	Wil 3785
Abell, Margaret	Hollywood	Anderson, Marion M.	Hollywood
2 GP-1526 Highland av	Holly 2830	2 HE, GP-1722s Wilcox av	577879
Ackley, Wilma	Whittier	Andres, Mrs. Edna	Ontario
2 HE-281 N Painter av, Whittier	8804	2 GP-5721 Waring av	57301
Acree, Minnie B.	Long Beach	Andrews, Mildred	Los Angeles
1 HE-558 N Berendo st	Wil 1258	1 Kgn-3027 Van Buren pl	Wil 2103
Adams, Adda S.	Los Angeles	Anshutz, Rose Marie	Banning
2 GP-4150 S Normandie av	269307	2 FA, GP-845 Heliotrope dr	Wil 418
Adams, Edith	Los Angeles	Ansley, Opal A.	Los Angeles
2 GP-4174 Budlong av	26687	1 FA-130 W av 53	
Adams, Grace Lucile	Los Angeles	Aoto, Yoshida	Los Angeles
2 PE, GP-1025 N Vermont av	599465	1 FA-210 N Park View st	54512
Adams, Dorothy	Los Angeles	Applewhite, Nannie	Los Angeles
2 Kgn-667 S Kingsley dr	560564	2 GP-1028 S Hope st	16632
Adams, Katherine	Los Angeles	Ardis, Lida	Downey
1 PE, Gen-667 Kingsley dr	560564	2 FA, GP-2071 La Salle av	72944
Adams, Mrs. Leah Darcy	Montebello	Armstrong, Ethel	Huntington Park
2 GP	Boyle 3264	2 GP	
Adams, Mrs. Lena K.	Los Angeles	Arnswaldt, Nelly E.	Los Angeles
1 SH-4444 Hammel av	Boyle 2755	1 FA-1904 West View st	74088
Adams, Mrs. Margaret	Los Angeles	Arthur, Emogene	Covina
1 El Mus-4251 Monroe st		1 El Mus-803 Heliotrope dr	599173
Adamson, Maud	Los Angeles	Ashbrook, Mary Louise	Alhambra
1 GP-2817 Jeffries av		21 FA, GP-218 S Hidalgo av,	Alhambra
Adelman, Marcia	Los Angeles	Ashley, Fern	Los Angeles
2 Music, GP-1368 Washington st		23-2671 W Ninth st	Wil 1355
	S 6817J	Atherton, Ella	Orange
Adrian, Marie	Los Angeles	1 GP-606 N Berendo st	Wil 5562
2 GP, HE-652 N Vermont av	59668	Auld, Ida J.	Los Angeles
Adsit, Carroll	Los Angeles	2 GP-852 1/2 N Virgil av	Wil 1928
Coml-1815 W Twelfth st	558180	Austin, Ferneena	Los Angeles
Aggeler, Frances	Los Angeles	2 GP-4233 Monroe st	Wil 938
1 FA-964 Beatrice av	19595	Austin, Ward H.	Covina
Ahler, Margaret	Colton	2 Mech A-2633 1/2 First st	Boyle 349
1 GP-176 S Kingsley dr	56458	Axton, Muriel	Los Angeles
Alden, Kathryn	Los Angeles	1 GP, Kgn-1558 N Harvard av	599136
1 GP, HE-Lovejoy Hotel	Main 3524	Babbitt, Helen	Puente
Alderman, Helene	Los Angeles	21 GP	
1 FA-952 1/2 Aliso st	41345	Babcock, Edith	Los Angeles
Allen, Jennie	Glendale	21 Special-1819 N Kenmore av	599138
2 GP-205 N Glendale av,	Glendale	Bachelor, Clarisa	Los Angeles
Allen, Myrtilla	Los Angeles	2 Music-2815 Manitou av	E 624
2 GP-264 S Ardmore av	568639	Badgley, Erma	Santa Monica
Allison, Bernice	Garvanza	2 GP-1944 Twentieth st	596
1 PE-5925 Walnut Hill av	Garv 592		

Badour, Eleanor B.	Glendale	Behymer, Frances	Los Angeles
2 GP-430 W Doran st, Glendale		1 GP-1757 Crenshaw blvd	75027
	Glen 2137W	Bell, Emily Todd	Los Angeles
Badur, Florence	Santa Ana	1 GP-7011 Hawthorne av	579161
2 GP-632 N New Hampshire av Wil 2264		Bell, Raymond	Los Angeles
Baer, Esther	Upland	12 GP-4614 First av	Ver 4924
11 GP		Bemrose, Frances	Los Angeles
Baggott, Nora	Los Angeles	11s Coml-632 N New Hampshire av	
1 Coml, GP-1416 W Eighth st		Bendel, Ada J.	Los Angeles
Bailey, Mrs. Gertrude	Los Angeles	11 Special-222 E Twenty-ninth st S 5155J	
2 SH-1431 N Catalina av	H 1561	Benedict, Janice	Tacoma, Wn.
Bailey, Madeline A.	El Monte	2 PE, GP-939 N Normandie av	599775
12 GP		Benfield, Mildred	Oildale
Baker, Beatrice C.	Los Angeles	1 GP-632 N New Hampshire av Wil 2264	
2 Kgn-460 Grand View av	Wil 447	Benning, Margaret Stevens	Los Angeles
Baker, Emily B.	Los Angeles	1 FA-2803 N Griffin av	E 1173
11 Special-668 Witmer av	558902	Bentley, Florence	Los Angeles
Baker, Lois M.	Los Angeles	2 PE, GP-1116 W Forty-fifth st	
1 GP-1925 Montrose av	52938	Bertram, Evangeline F.	Pasadena
Baker, Ruth	Los Angeles	1 SH-1164 Wesley av, Pasadena	
1 GP-4139 S Arlington av	Ver 198		Colo 7222
Balaam, Villa	Exeter	Belkouski, Margaret	Hollywood
2 GP-4426 Melrose av	Wil 5570	2 GP-1840 Canyon dr	Holly 810
Baldrige, Beatrice	Los Angeles	Beyer, Anne E.	Los Angeles
1 Kgn-429 W Forty-eighth st	29628	2 HE-762 Heliotrope dr	Wil 5937
Baldwin, Alice M.	Long Beach	Beyer, Stelea M.	Los Angeles
1 HE, GP-383 Wisconsin av, Long Beach		2 GP-814 N Kingsley dr	
Ball, Florence	El Monte	Bickerton, Blanche	San Diego
1 GP		1 Kgn-715 N New Hampshire av	Wil 3910
Ballanfont, Elizabeth	Los Angeles	Bigelow, Marjorie	Flandreau, S. D.
2 GP-671 Coronado st		1 GP-1223 N Edgemont av	
Barber, Pauline	Hollywood	Bigelow, Vesta D.	Glendale
1 GP-5826 Willoughby av	Holly 3031	12 GP-430 W Doran st, Glendale	
Barker, Hazel M.	Los Angeles		Glen 213W
1 GP-Box 656, R.F.D. No. 8		Biggs, Ruby	Orange
Barlotti, Marie	Los Angeles	11 GP	
2 GP-1708 W Twenty-fifth st	71480	Billups, Lillian	Los Angeles
Bartosh, Clare	Kensal, N. D.	2 Coml, GP-1026 Heliotrope dr	
1 GP-1434 E Fifty-first st		Bishop, Ruth R.	Long Beach
Bates, Robert	Pomona	2 GP-765 N Vermont av	597727
2 MA, SH-650 N Kenmore av		Bishop, Viola	Los Angeles
Beall, Caroline	Fresno	2 HE, GP-750 E Forty-sixth st	S 1261
2 GP-659 Heliotrope dr	599204	Blair, Aldine C.	Los Angeles
Beall, Vera	Fowler	12 GP-610 Heliotrope dr	Wil 6129
2 HE, GP-659 Heliotrope dr	599204	Blakesley, Ruth	Los Angeles
Beardsley, James A.	Pasadena	1 Music-1225 E Forty-third st	
2 MA-1152 Raymond av, Pasadena		Blanford, Helene	Glendale
	Colo 849	1 HE-2191 Hawthorne st, Glendale	
Beaver, Helen	Inglewood	Blazecki, Clara	Long Beach
2 GP	Inglewood 162	2 GP-3419 E Fourth st, Long Beach	20053
Becker, Eunice G.	Covina	Blodgett, Cecilia	Los Angeles
1 GP-1824 S Wilton pl	West 1480	1 GP-1953 Bonsallo av	West 1866
Beckstead, Jessie E.	Owensmouth	Blome, Nora E.	Los Angeles
1 HE, GP		2 FA-3417 Walton av	West 3489
Beecher, Marian	Los Angeles	Bloom, Augusta Lee	Los Angeles
2 FA, GP-5423 Harold way	599834	1 GP-19271 Orchard av	21232
Beeemeyer, Maria J.	Los Angeles	Blythe, Virginia	Los Angeles
1 GP-1407 N Wilton pl	Holly 321	1 Music-634 N Berendo st	597211

Bohon, Mary	Los Angeles	
1 Kgn-1245 W Adams st	24494	
Bolton, Ada	Whittier	
2 GP-134 Washington st, Whittier	5593	
Booth, Olive	S. Pasadena	
2 GP-1708 Lyndon st, S. Pasadena		
Borland, Maud	San Bernardino	
2 GP-645 Heliotrope dr	Wil 418	
Borsum, Adolph	Venice	
1 MA-18 Brooks av, Venice		
Bostelman, Amelie	Los Angeles	
2 Coml-1547 Second av	W 3309	
Botkin, Florence	Los Angeles	
1 GP-1021 W Fifty-sixth st		
Boughton, Helene	Los Angeles	
1 GP-235 S Ardmore av	560901	
Bovee, Lois	Los Angeles	
1 GP-645 Heliotrope dr	Wil 418	
Bowen, Marjorie	Ontario	
*1 GP-128½ Euclid av, Ontario		
Bower, Lucy	Los Angeles	
1 Kgn-2126 S Los Angeles	S 2056M	
Bower, Ruby J.	Los Angeles	
*2 Kgn-5541 Carlton way		
Bowers, Rilla	Aledo, Ill.	
2 GP-701 N Edgemont av	597679	
Bowles, Isabelle	Los Angeles	
*1 Kgn-4510 Franklin av	599356	
Bowyer, Millicent	Pomona	
2 GP-1003 W Second st, Pomona	7361	
Box, Lennah	East Jordan, Mich.	
2 GP-1735 N Berendo st	Holly 3952	
Boyd, Beatrice	Los Angeles	
2 GP-310 W Seventy-eighth st		
	Ver. 2213-2 bells	
Boyd, Bernice	Los Angeles	
1 GP-528 Bell av	Boyle 3130	
Boyd, Irene	Los Angeles	
*2 GP-1801 Sunset blvd	Pico 1752	
Boyd, Jessie	Anaheim	
*2 GP	46J	
Bradshaw, Violet Latimer	Venice	
*2 GP-525 Broadway, Venice		
Bragonier, Miriam	Los Angeles	
2 Kgn-3350 Huntington dr	35504	
Brahm, Louise W.	Los Angeles	
*1 Ind. Arts, GP-791 E Thirty-eighth st	28590	
Brand, Lillian	Los Angeles	
2 GP-1533 Orange st		
Branson, Melissa	Los Angeles	
2 Com-1007 Towne av	M 852	
Bratton, Perle	Los Angeles	
2 GP-854 E Forty-first st	South 4497J	
Brazelton, Dorothy A.	Los Angeles	
*2 GP-525 S Serrano av	560760	
Brink, Iris	Los Angeles	
1 HE, GP-1026 E Twenty-third st		
Bristor, Frances	Los Angeles	
2 GP-908 W Jefferson st	23477	
Brockway, Foss R.	Hollywood	
*2 GP-4402 Sunset blvd	599218	
Brockway, M. M.	Los Angeles	
2 MA, Coml-4402 Sunset blvd	599216	
Brockway, Ramona	Hollywood	
1 GP-4402 Sunset blvd	599216	
Broker, Florence	Los Angeles	
1 Kgn-1355 Orange st	Wil 2049	
Broock, Helen W.	Los Angeles	
1 Coml-912 W Fifty-sixth st	Ver 4608	
Brooks, Ila B.	Los Angeles	
1 GP-1782 W Twenty-fourth st		
Brooks, Paul I.	Los Angeles	
1 Coml-1782 Twenty-fourth st		
Broome, Frances	Los Angeles	
1 GP-1024 W Forty-second st	26749	
Brose, Olga	Los Angeles	
1 GP-622 Court st	Bdwy 1247	
Brown, Katherine McNeff	Los Angeles	
*1 Special-518 S Carondelet st	51325	
Brown, Noa	Los Angeles	
1 Federal-3784½ Wisconsin av	77512	
Browning, Inez	Los Angeles	
2 HE, GP-929 S Figueroa st Bdwy 1711		
Brucher, Louise	Los Angeles	
2 GP-1715 E Manchester st	S 4265	
Brunner, Mildred D.	Los Angeles	
2 PE-1918 S Union av	Wil 2618	
Brunton, Afton G.	Hollywood	
1 GP-4540 Kingswell av	Holly 1034	
Bryant, Frances	Los Angeles	
1 GP-907 E Twenty-first st	21451	
Burks, Virginia	Venice	
1 GP-807 Superba st, Venice	1377	
Burns, Ardis	Los Angeles	
2 FA, GP-1828 Manhattan pl	71550	
Burns, Edward	Santa Ana	
1 Mech A-451 W Sixth st, Santa Ana		
	946R	
Burns, Kathro	Los Angeles	
*2 GP-1146 W Twentieth st	21258	
Burson, Irene	San Pedro	
1 GP-3203 San Pedro st, San Pedro		
	S 6316	
Burt, Elsie	Hollywood	
2 GP-6030 Carlton way		
Byington, C. C.	Santa Monica	
2 FA-1003 Second st	1326	
Byrne, Gertrude	Los Angeles	
2 GP-234 S Johnston st	E 1278	
Cabos, Daisy	Los Angeles	
1 GP-4306 S Grand av		
Calderwood, Greeba	Los Angeles	
1 MA, GP-4224 N Griffin av	E 1165	
Caldwell, Blanche	Garvanza	
1 GP-301 Nava pl	Garv 1665	
Caldwell, Ruth	San Dimas	
2 Kgn-619½ Heliotrope dr	244	
Calkins, Ardelle B.	Redlands	
*2 GP-26 Grant st		

Campbell, Harry W.	Los Angeles	Chandler, Elizabeth	Glendale
12 MA-4315 La Salle av	Ver 6507	1 Special-809 E Harvard st	Glen 484M
Campbell, Helen	Los Angeles	Cheesman, Ruth	Los Angeles
1 GP-444 Plymouth blvd	568038	2 Kgn-5324 Aldama st	Garv 995
Campbell, Ruth	Los Angeles	Chenoweth, Grace	Los Angeles
1 GP-1012 Douglass st	54402	2 MA, HE-1800 New Jersey av	41721
Cannon, Elva	Whittier	Chew, Anita	Los Angeles
12 GP	369	12 Kgn-2227 W Twenty-first st	72989
Carden, Kathleen	Douglass, Ariz.	Chew, Florence	Los Angeles
1 PE, HE-4532 Willowbrook av		2 Kgn-2227 W Twenty-first st	72989
Cardinell, Ruth	Manhattan Beach	Cheyney, Lydia Hartz	Los Angeles
1 Kgn		1 GP-803 Heliotrope dr	599173
Careas, Emma	Los Angeles	Cheyney, Sara Hartz	Los Angeles
1 GP-1615 Golden Gate av	Wil 2242	1 GP-803 Heliotrope dr	599173
Carlson, Elsie	Orange	Christensen, Canzada	Riverside
2 GP-1209 W Fourteenth st	22852	2 HE, GP-121 Robinson st	Wil 361
Carmichael, Ella	Los Angeles	Christie, Dorothy Mary	Pasadena
2 GP-415 E Vernon av	S 6303	2 MA-1899 N Michigan av, Pasadena	F O 2443
Carnes, Ellen Ora	Oxnard	Clark, Edith	Los Angeles
1 GP-3036 Van Buren av	77820	12 GP-8526 S Figueroa st	S 4106J
Carnes, Myrtle H.	Van Nuys	Clark, Mrs. Lottia Page	Los Angeles
2 GP		12-1244 Fourth av	75283
Carpenter, Celia	Los Angeles	Clark, Mrs. Mary	Los Angeles
12 Kgn-3019 Raymond av	77581	1 FA-1244 Fourth av	75283
Carr, Mary D.	Riverside	Clark, Mary Rose	Garvanza
2 GP-949 N Normandie av	559550	1 Music-5407 Ash st	Gar 749
Carr, Ruth	San Pedro	Clarke, John A.	Los Angeles
1 GP-645 Heliotrope dr	Wil 418	1 GP-3876 Budlong av	
Carson, Lorraine	San Bernardino	Clayton, Bernice	Los Angeles
1 GP-601 N Berendo st		1 SH-625 Loomis av	M 1038
Carter, Alice Price	Los Angeles	Cleland, Mildred	Pasadena
1 GP-3036 Van Buren st	77820	1 Kgn-270 Claremont dr	F O 1805
Carver, Alta	Los Angeles	Clinton, Audrey	Los Angeles
1 GP-4460 Willowbrook av		1 GP-1325 W Fifty-ninth st	
Carver, Clarissa	Artesia	Cole, Alma C.	Los Angeles
1 GP-2009 Bellevue av	Wil 5532	2 GP-4157 Melrose av	Wil 4965
Casey, Elizabeth	Los Angeles	Cole, Mildred	Los Angeles
12 GP-1042 Britannia av	Boyle 3488	1 Kgn-961 W Forty-third st	Ver 3778
Catley, Jane	Los Angeles	Collins, Marion	Anaheim
2 HE, GP-1952 Compton av	S 6954M	1 GP- Route No. 3, Anaheim	
Catley, Lucile	Los Angeles	Collins, Mildred	Detroit, Mich.
2 Music, GP-1952 Compton av	S 6954M	1 PE-718 Alvarado st	
Catur, Hazel	Los Angeles	Colton, Phoebe	Bakersfield
1 Music-2403 W Twenty-second st	73469	2 GP-805 C st, Bakersfield	1121J
Cavana, Mary E.	Hollywood	Comes, Kittee	Los Angeles
2 Coml, FA-1558 N Kingsley dr	Holly 4250	1 HE-1622 Curson st	579446
Cavanaugh, Julia	Los Angeles	Conner, Florence	Los Angeles
1 GP-219 S Sichel st	E 2354	1 Com-4717 Floral dr	Boyle 2375
Celeen, Ida	Sioux City, Iowa	Conover, Lois F.	Long Beach
1 Special, Coml-2525 McPaul st, Sioux City, Iowa		1 FA-814 Atlantic av, Long Beach	
Chamison, Libbie	Butte, Mont.	Conover, Madeline A.	Long Beach
1 Kgn-601 N Berendo st	Wil 5143	2 FA-814 Atlantic av, Long Beach	
Chandler, Esther	Atchison, Kan.	Conover, Virginia	Hollywood
1 Kgn-1923 Lovelace av	25960	1 GP-2048 Holly dr	579423
Chapman, F. Marjorie	Hollywood	Conway, Helen	San Diego
1 HE-5346 La Mirada av	Holly 145	1 GP-505 S Serrano av	Wil 2581
Chapman, Ruth	Garvanza	Cooksey, Louise	Los Angeles
2 HE, GP-Mt. Pleasant st	Garv 1516	1 GP-1246 Birch st	Bdwy 309
		Cooper, Janet	Los Angeles
		1 Kgn-1750 S Ardmore av	

Copeland, Edna	Santa Ana	Cunningham, Mary	Somis
1 GP-645 Heliotope dr	Wil 815	1 Com	7488
Copeland, Reba	San Jacinto	Curran, Josephine M.	Los Angeles
1 GP-5321 Romaine av	Holly 948	1 HE, GP-557 S Western av	Wil 4489
Corlett, Florence	Los Angeles	Curry, Grace M.	Elkpoint, S. D.
1 GP-8025 Alhambra av		1 HE-642 N Juanita av	Wil 2194
Cotter, Gladys	Nipoma	Curry, Julia E.	Los Angeles
2 GP-1634 E Twenty-second st		1 Spec Coml-642 N Juanita av	Wil 2194
Couchman, Kathryn	Los Angeles	Curtin, Blanche	Santa Monica
2 FA, GP-813 W Third st		1 PE, GP-1234 Eighth st, Santa Monica	
Cowan, Maurine	El Monte	Curtis, Irvin S.	Eagle Rock
2 GP		2 Mech A-193 N Acacia av, Eagle Rock	
Cox, Jessie Aileen	Imperial	Curtis, Dorothy	Halleck
1 GP-2148 Ivar av	577184	2 GP-645 Heliotope dr	Wil 418
Cox, Jessie J.	Sulphur, Tex.	Curtis, Helen	Gardena
Coml-Federal	229	2 HE, GP	492
Coyle, Elizabeth M.	Los Angeles	Cutright, Elizabeth	Van Nuys
1 GP-9244 W Forty-first dr		1 HE, GP	71
Craig, Margaret	Los Angeles	Cutta, Harriett E.	Los Angeles
1 GP-615 Heliotope dr	Wil 5183	2 PE, GP-1314 N Kenmore av	
Crandall, Ruth	Pine Knot	Dahlbrink, Marlon	Los Angeles
1 GP-Box 168, Pine Knot		12 GP-849 E Fifty-second st	S 8829R
Crawford, Courtney	Hollywood	Daly, Dorothy	Los Angeles
1 GP-6029 Hollywood blvd	579974	12 GP-1008 S Grand View av	558057
Crockett, Joy	Los Angeles	Danielson, Cora Lee	Los Angeles
1-442 E av 28	E 888	1 GP-1087 S Flower st	B 5786
Croft, Marvelyn	Los Angeles	Darmody, Mrs. Helen	Los Angeles
2 HE, GP-439 S Serrano st	568364	12 GP-1627 S. Hoover st	W 4417
Cronkhite, Hazel	Los Angeles	Dastarac, Frances	San Pedro
1 GP-1722 W Fifty-second st	Ver 5888	2 GP-645 Heliotope dr	Wil 418
Cronkhite, Irene	Santa Monica	Davis, Harlie N.	Los Angeles
2 Music-5411 Santa Monica blvd	599121	1 Mech A-4139 Normal av	
Cropper, May R.	Los Angeles	Davis, Ethel	Hanford
1 Spec Coml-952 S Kingsley dr	Wil 490	1 GP-4416 Sunset blvd	Holly 3146
Crosby, Spurgeon	Los Angeles	Davis, Mrs. Maud S.	Los Angeles
1 Mech A-1442 E Sixty-eighth st		1 SH-2633 Romeo st	75148
	S 6464W	Davis, Mrs. Nell H.	Los Angeles
Crouch, Corinne	Los Angeles	2 GP-529 N New Hampshire av	599386
12 Kgn-909 Fedora st	Wil 1365	Davis, Ruth Alice	Los Angeles
Crow, Alice	Los Angeles	1 HE-1455 W Twenty-seventh st	
2 GP-1441 W Fifty-sixth st	Ver 6120	Davis, Sarah Griswold	Los Angeles
Crow, Rosa	Eagle Rock	SH-1500 W Ninth st	558330
1 GP-809 W Adams st, Eagle Rock		Day, Charlotte	Los Angeles
Crowley, Nadine	Visalia	12 GP-969 W Forty-fifth st	
1 GP-1306 Coronado ter	Wil 5510	Daze, Teresa	Los Angeles
Crowley, Ruby Louise	Visalia	2 GP-140 S Griffin av	E 745
2 GP-1806 Coronado ter	Wil 5510	De Camp, Miriam Rose	Los Angeles
Crum, Mabel	Compton	1 GP, FA-1711 Magnolia av	24252
SH	741	De Ford, Grace	Los Angeles
Crosland, Lessie	Los Angeles	1 GP-626 W Seventeenth st	24858
12 GP-1026 E Fourteenth st	S 2777R	De Garmo, Glenn	El Monte
Cryan, Mary M.	Los Angeles	1 GP	88M
1 GP-10444 Park View	557969	De Garmo, Velma	El Monte
Culbertson, Bertha	Long Beach	1 GP, HE	88M
1 PE, GP-732 Pine av, Long Beach		De Lano, Ruth	S. Pasadena
Culler, Bess E.	Los Angeles	12 GP-1715 Monterey rd, S. Pasadena	35796
12 GP-1231 W Seventy-eighth st			
Culp, Emily E.	Los Angeles	Demarest, Lucile	Santa Paula
1 Coml-210 W Thirty-first st		1 HE, GP-4426 Melrose av	Wil 5570

Diaz, Estefania	Los Angeles	Duell, Gwendolyn M.	Ontario
1 GP-1529 W Sixteenth st	W3858	1 GP, HE-685 N Berendo st	Wil 2572
Dundas, Marieta F.	Oxnard	Duffy, Mary Louise	Los Angeles
'1 GP HE-323 B st, Oxnard	R 328	'1 Kgn-2627 Magnolia st	W 2284
Dinsmore, Beulah	Van Nuys	Duncan, Marie	Visalia
1 GP-7601 N Sherman way, Van Nuys		1 Kgn-4370 Melrose av	
Doak, Helen Perry	Los Angeles	Dundas, Marieta F.	Los Angeles
1 GP-39444 S Grand View av	S 6552J	'1 HE-711 N New Hampshire av	597541
Doan, Virginia	Los Angeles	Duke, Cleofa	Los Angeles
1 GP-732 E Twenty-seventh st	24628	1 GP-2950 Fifth av	
Dobyns, Geraldyn	Long Beach	Dunbar, Alice M.	Los Angeles
1 HE-Route 2, Box 215, Long Beach		2 PE, GP-902 W av 65	39250
	Home 4966	Dunnack, Gladys	Orange
Dobyns, Lawrence	El Monte	1 HE, GP, 647 N Mariposa av	597588
2 Coml-El Monte	54M	Dyer, Lorr E.	Los Angeles
Dockweiler, Mary	Los Angeles	'1 GP-5856 S Flower st	
'2 GP-957 W Adams st	West 390	Earley, Mildred	Los Angeles
Dodson, Valmore	Los Angeles	'1 Coml-521 W Twenty-third st	
1 GP-1009 Wilshire blvd		Eastin, Madeleine	Los Angeles
Dolly, Marian	Long Beach	1 GP-668 Witmer st	Bdwy 1400
2 Music, GP-4233 Monroe st	Wil 938	Easton, Helen	Anaheim
Donahue, Irma	Alhambra	2 FA, GP-564 N Berendo st	Wil 3765
1 HE-303 S. Garfield av, Alhambra	246	Edgar, Vera	Pasadena
Donovan, Eloise	Los Angeles	2 GP-733 Summit st, Pasadena	Colo 8073
2 Kgn-2202 Western av	71157	Edgerton, Claudine	Los Angeles
Donnelly, Gertrude	Los Angeles	1 GP-1617 S Flower st	
2 Coml-248 S Olive st	Bdwy 3094	Edwards, May G.	Whittier
Donnelly, Louise	La Jolla	1 PE-522 E Bailey st, Whittier	
'1 Coml-Box 85, La Jolla	L.J. 113W	Elder, John D.	Los Angeles
Donnelly, Margaret	Los Angeles	1 GP-356 S Reno st	Wil 1755
'1 Spec FA-248 S Olive st	Bdwy 3094	Elder, Loraine	Los Angeles
Doody, Grace	Los Angeles	1 Kgn-116 S Dillon st	
1 Kgn-511 W Twenty-third st	W 4591	Elliott, Myrtle	Marquette, Mich.
Dooley, Loretta	Bakersfield	'2 GP-1201 W Fifth st	557072
1 GP-4451 Lockwood av		Elkin, Eva	Sacramento
Doty, Dorothy	Los Angeles	1 GP-715 N New Hampshire av	Wil 3910
2 PE-459 N Oxford av		Enfield, Gertrude M.	Los Angeles
Dougherty, Eva M.	Los Angeles	2 GP-4440 Lockwood st	
'2 GP-1215 Edgemont av	Holly 3081	Enberg, Ebbe	Los Angeles
Dow, Kathleen	Los Angeles	1 Coml-613 W Eightieth st	
1 GP-1319 Spaulding av		Engberg, Pearl C.	Riverside
Doweel, Annie E.	Los Angeles	'2 GP-133 S Jefferson st, Riverside	
'1 Spec GP-1005 N Harvard blvd		Engle, Amy	Baldwin Park
	Holly 1287	1 GP-1706 Santee st	S 7041
Downing, Paulyne	Los Angeles	Epstein, Edna	Los Angeles
2 Music-701 Edgemont blvd	597879	'2 GP-1601 W Fifty-second st	Ver 4666
Downs, Arthur	Los Angeles	Epstein, Miriam	Los Angeles
'1 Mech A-3989 Normandie av	Ver 1339	1 GP-1532 Gramercy pl	72926
Doyle, Dorothy	Los Angeles	Erickson, Julia	Los Angeles
'1 GP-4863 Hillsdale dr.	E 2920	2 GP-1334 1/2 Wright st	
Doyle, Ila Helen	Hollywood	Erwin, Audrey	Los Angeles
1 PE, GP-1731 McCadden av	Holly 2932	2 PE, GP-1978 Bonsailo av	22525
Droge, Augusta	Los Angeles	Evans, Mrs. Helen S.	Los Angeles
1 GP-711 N New Hampshire av		2 GP-National Soldiers Home	
Drumm, Frances	Palms	Evans, Maud D.	Los Angeles
2 FA		'1 Spec GP-1900 Taft av	597641
Dryden, Lenora	Venice	Evans, Maurice Victor	Los Angeles
2 FA, GP-1813 Ocean Front, Venice		1 GP-5511 Bayer st	
Dudley, Ruth	Corona		
'1 GP-4370 Melrose av	Wil 3600		

Everett, Beulah	El Monte	Fraser, Mary M.	Los Angeles
²¹ GP		2 Kgn-4368 Melrose av	
Farced, Gladys, E.	Los Angeles	French, Hettie Peary	Los Angeles
²¹ GP-385 N Berendo st	Wil 640	2 GP-2874 W Fifteenth st	75146
Farnum, Mildred	El Monte	Fry, Emily Louise	Hollywood
1 Kgn, GP	El Monte 18J	1 FA-1556 Fuller av	577054
Farrell, Ruth E.	Hollywood	Fuller, Emily	Soldiers Home
2 Coml-4387 Sunset blvd	Holly 557	1 FA	510 Sta. 46
Faust, Kathryn	Long Beach	Fulton, Ethelyn	Los Angeles
1 PE, GP-236 Main av, Long Beach	14261	¹² PE, GP-422 E av 28	E 971
Fellows, Ada J.	Etiwanda	Gabr, Margaret	Norwalk
2 GP-4243 Monroe av	Wil 2221	¹¹ HE, GP-	1307
Ferguson, Wilhelmina	Los Angeles	Galloway, Anna May	Los Angeles
1 GP-900 Crescent blvd		²¹ Spec Music-1322 W Fifty-first st	Ver 7461
Ferris, Mrs. Flora	Los Angeles	Gamble, Dorothy	Los Angeles
2 GP-2912 Sixth av		2 GP-Box cor. First and Shorb avs.	
Fessler, Alta	Covina	Gardner, Ruth	Los Angeles
1 Kgn-4103 Rosewood av	599821	2 FA-142 S Alexandria av	568107
Fessler, Belle	Covina	Gardner, Mrs. Myrtle	Los Angeles
1 Kgn-4103 Rosewood av	599821	¹² El Art-860 Echo Park av	Wil 2884
Fess, Mrs. Inez	Los Angeles	Garinger, Lucile	Los Angeles
²² GP-1354 S Union st		1 GP-5217 S Main st	S 2357
Fink, Anna	Los Angeles	Garner, Vera	Los Angeles
1 GP-144 W Forty-sixth st		1 GP-1156 W Thirty-sixth st	
Fisk, Annie	Los Angeles	Garrett, Dorothy	Los Angeles
1 Kgn-639 Stanford av	Bdwy 4930	2 GP-4405 Wilton pl	79496
Fitzpatrick, Elizabeth	Los Angeles	Garretson, Elizabeth	Los Angeles
2 HE, GP-1812 Winfield st	Wil 393	1 Music, GP-1076 W Sixth st Main 6981	
FitzSimons, Kathryn	Los Angeles	Garvey, Lilly	Ellensburg, Wn.
1 PE-1911 W Forty-third pl	Ver 4084	²¹ Spec-316 W Fifty-second st	Ver 185
Fleishman, Mrs. Josephine B.	Los Angeles	Garvin, Genevieve	Los Angeles
¹² GP-2769 W Eighth st	Wil 560	¹¹ Kgn, Music-1701 Fifth av	74821
Fletcher, Sara	Santa Monica	Garza, Maria De la	Los Angeles
2 GP-903 Fourth st, Santa Monica	2030	1 GP-1965 Park Grove av	21622
Flink, Essie A.	Los Angeles	Gaydon, Irma	Pomona
2 GP-619 E Twenty-fifth st		2 GP-800 N Normandie av	
Foley, Mrs. Sabra B.	Los Angeles	Geale, Nellie	Santa Barbara
²¹ Special-1323 Las Palmas	Holly 3653	²² GP-701 Edgemont av	597679
Foote, Margaret B.	Los Angeles	Gebert, Ida	McFarland
2 GP-8068 Norton av		2 GP-4618 Temple st	
Ford, Carol	Los Angeles	Gentle, Ruth	Los Angeles
1 GP-1431 Oak Circle		1 FA-1820 N Berendo pl	599137
Ford, Caroline	Los Angeles	Gentry, Marguerite	Los Angeles
1 GP-2622 San Marino st		1 Kgn-8421 San Franco st	41062
Ford, Lucie Mary	Porterville	Gentry, Mary	Fullerton
2 GP-645 Heliotrope dr	Wil 418	2 GP-632 N New Hampshire av	
Ford, Marjorie	Los Angeles	Gerks, Myrtle	Cananea, Mexico
2 GP-1458 W Twenty-seventh st		²² GP-4426 Melrose av	Wil 5570
Fortain, Beatrice	Redondo Beach	Georgantas, June	Culver City
2 GP-645 Heliotrope dr	Wil 418	¹² GP	W 763
Foster, Effie D.	Upland	George, Olympia	Los Angeles
2 GP-528 N Berendo st	Wil 7257	¹¹ GP-1159 N Commonwealth av	
Foster, Fern	Los Angeles	German, Gladys	Los Angeles
1 GP-270 E Forty-sixth st	S 158W	2 GP-2600 N Sichel	
Foulkes, Cecelia M.	Los Angeles	Gerner, Ruby	Long Beach
1 El Mus-1037 E Twenty-first st	S 6497	²¹ HE, GP-4426 Melrose av	Wil 5570
Frambes, Mae	Porterville	Gernich, Lucile	Redlands
¹² GP		2 GP-762 N Heliotrope dr	Wil 5937

Getten, Julia	Los Angeles	Guse, Marie	Los Angeles
1 HE, GP-4915 Budlong av	Ver 86	1 GP-247 E Eightieth st	
Gilbraith, Stella	Wasco	Guyer, Sarah Craven	Los Angeles
1 GP-4451 Lockwood st		2 GP-1425 Elsa av	Wil 8152
Gilchrist, Nella	Los Angeles	Habig, Edna Mae	Los Angeles
1 FA, GP-5612 Carlton way	597147	2 GP-747 E Twenty-ninth st	S 6551J
Gilmour, Mrs. Eva N.	Los Angeles	Haddox, Marjorie	El Monte
1 GP-124 N Boylston st		1 GP	86W
Girdlestone, Catherine	Los Angeles	Hagopian, Theresa	Los Angeles
1 HE, GP-642 W Thirty-second st		1 Kgn-2324 Monroe st	
	S 2806M	Hall, Alfreda	Los Angeles
Glass, Mrs. Nancy	San Fernando	1 GP-508 W av 53	
2 HE, SH-333 Brand blvd, San Fernando		Hall, Elizabeth	Owensmouth
Gleiss, Esther	Los Angeles	1 GP	
12 GP-5743 Melrose av	577114	Halsted, Katharine	Riverside
Glenn, Mrs. Lucile	Los Angeles	1 GP	Man 854J
2 Coml-2484 W Washington	W 4921	Hamilton, Viola	Los Angeles
Glover, Mary J.	Alhambra	12 FA-1120 Arapahoe	54085
1 GP-425 S Hidalgo av		Hamilton, Wynona	Pasadena
Gluyas, Maybelle I.	Tulare	2 HE-640 Summit av, Pasadena	
1 PE, GP-847 W Eighteenth st			Colo 1188
	West 710	Hampton, Robbie Joe	Los Angeles
Godfrey, Adelaide M.	Hollywood	1 GP-1235 W Thirty-eighth pl	
12 FA, GP-8705 Hollywood blvd	57545	Hand, Helen Mar	Los Angeles
Golden, Kathryn	Los Angeles	1 FA-4704 Wilton pl	49354
1 Kgn-Baker Apt. Hotel	Bdwy 940	Handley, Mrs. Elizabeth J.	Los Angeles
Goodwin, Josephine	Sawtelle	SH-117 West av 55	39115
1 GP		Hanly, Claire	Los Angeles
Gorchakoff, Beatrice	Los Angeles	1 GP-1045 Maple av	
1 GP-1947 E Second st	Boyle 2849	Hansell, Montes	Los Angeles
Graham, Ethel	Huntington Beach	1 Kgn-Box 1477	
1 HE, GP-808 Heliotrope dr	599173	Hansen, Walter F.	Eveline, Wn.
Graham, Harvey L.	San Bernardino	2 GP-1820 Wilson st	63194
12 MA		Harbor, Mary	South Pasadena
Graham, Laura B.	Venice	2 Music, GP-1812 Bank st, S Pasadena	
2 GP-1500 W Adams st	W 6204		35489
Grant, Francis Elois	Los Angeles	Harden, Helen	Glendale
12 rA-3816 1/2 Sunset blvd	597888	2 Kgn-606 N Berendo st	Wil 5562
Gratto, Mrs. Bella M.	Hermosa Beach	Hare, Ethel	Lansdale, Pa.
1 SH-1116 S Flower st	Bdwy 8190	1 Music-2215 Eighth av	71710
Gray, Ruth	Porterville	Harper, Thelma	Los Angeles
2 GP-4426 Melrose av	Wil 5570	2 GP-645 Heliotrope dr	Wil 418
Gray, Ruth Agnes	Los Angeles	Harrell, Rush M.	Santa Ana
2 GP-226 N Griffin av	E 3752	12 GP-529 S Sycamore, Santa Ana	
Green, Juliet	Hollywood	Harriek, Ella	Los Angeles
1 Kgn-1436 McCadden pl	Holly 1648	12 GP-1047 Georgia st	Pico 1684
Gregg, Elizabeth	Long Beach	Harrison, Elizabeth	Los Angeles
1 GP-1735 Ohio av		1 GP-1216 E Sixteenth st	
Gregory, Mildred	Long Beach	Harrington, Norma	Los Angeles
2 GP-5867 S Hoover st		12 HE, GP-837 Edgmont st	599810
Gressley, Ruth L.	Pomona	Harris, Bessie	Riverside
1 HE, GP-1033 N Mariposa av		12 GP-607 Magnolia av, Riverside	
Griffin, Edith	Los Angeles	Harris, Hazel M.	Riverside
2 GP-1194 Thirty-fourth st		12 GP-607 Magnolia av, Riverside	
Grimm, Norma	Redondo Beach	Harris, Mary	Keso, Wn.
1 GP- R. R. Box 27, Redondo		1 Kgn-1082 W Eighth st	M 7064
Grinton, Grace	Los Angeles	Hart, Edith Caroline	Los Angeles
1 GP-5463 Fourth av	Ver 2548	1 Music-645 Heliotrope dr	Wil 418
Gurr, George W.	San Bernardino	Hart, Marjorie M.	Los Angeles
1 MA-Y. M. C. A.		2 GP-336 Loma dr	60519

Hart, Marion D.	Los Angeles	Holland, Irma	Imperial
2 GP, Coml-128 S Ardmore av	560628	1 GP-5728 Harold way	Holly 4092
Hart, Naomi	Los Angeles	Hollenbeck, Mary	Los Angeles
2 GP-1923 Lovelace av	25980	1 GP-911 N Mariposa st	599027
Hatheway, Ethelyn Jane	San Diego	Hollister, Helen	Venice
12 FA-2568 A st		2 FA, GP-4426 Melrose av	Wil 5570
Haskins, Olive	Long Beach	Holmblad, William	San Pedro
1 Music-2701 E Fourth st	Long Beach	1 Mec A-448 Santa Cruz st	656M
Hass, Edith	Hollywood	Holzman, Helen	Los Angeles
2 GP-6017 Carlton way	Holly 289	1 Com-511 S Alta st	East 2220
Hatert, Gordan	Los Angeles	Hood, Mary	Los Angeles
1 Spec Coml-1147 Maple av Bdw 1699		2 GP-2827 Budlong st	
Hayes, Julia	Monrovia	Hornstra, Lucile	Los Angeles
1 FA, Elm-1040 Westlake av	54702	1 GP-1040 W Forty-second st	
Haynes, Grace	Los Angeles	Horsley, Helen	Worland, Wyo.
1 FA, GP-159 Live Oak st		1 GP-4238 Monroe st	Wil 938
Hazlett, Isabel	South Pasadena	Hoskins, Grace E.	Claremont
1 Kgn-1853 Mission st, S Pasadena	85696	2 GP-8018 W First st	53829
Heber, Frances Regina	Los Angeles	Houston, Mrs. Belle	Los Angeles
1 GP-1550 W Twentieth st		1 SH-4370 Melrose av	Wil 3600
Heldman, Joanna	Glendale	Houston, Hazel	Los Angeles
12 GP-436 Palm dr, Glendale		1 FA-1240 E Twentieth st	
Helming, Mabel	Long Beach	Howard, Judith	Los Angeles
1 GP-1148 Edgemont st	599908	1 MA-2247 Cove av	Wil 898
Henderson, Evalyn	Los Angeles	Howe, Elizabeth	Los Angeles
1 GP-7315 Walnut dr		2 GP-1785 W Sixth st	50951
Henrichs, Loreta	Pasadena	Huber, Ruth	Mesa, Ariz.
2 PE-209 S Holliston st, Pasadena		2 PE-611 N New Hampshire av	59054
	Colo 2177	Hubbard, Helen	Los Angeles
Herbert, Myrta E.	Los Angeles	2 Kgn-1106 W Fiftieth st	Ver 2869
1 FA-1317 Exposition blvd	Ver 6967	Hull, Thelma	Long Beach
Herdina, Viola	Los Angeles	1 Music-715 N New Hampshire av	Wil 3910
1 GP-401 S Eastlake av		Humphreys, Keitha	Artesia
Herrington, Jessie	Glendora	1 GP	7176
1 Kgn-1216 N Alexandra av	599072	Hunt, Josephine	El Monte
Heth, Gertrude	Azusa	1 Kgn-R F D, box 391, El Monte	
1 GP-416 Grand View av	53561	Hunt, Dorothy	Glendale
Hewitt, Mrs. Beatrice	Los Angeles	2 Kgn-1007 E Harvard st, Glendale	Glen 150
2 Music-5821 Virginia av		Huntley, Wenona F.	Los Angeles
Hewitt, Zilla E.	Chino	2 GP-2306 Juliet st	71851
2 GP-619 S Carandelet st	Wil 2970	Hurst, Eva	Long Beach
Hibbs, Esther	Oxnard	2 GP-1709 American av, Long Beach	14551H
2 GP-1425 W Eleventh st	Bdwy 3838	Huston, Ellen	Huntington Park
Hilton, Ada Jane	Los Angeles	1 PE, GP-8121 S Florence st, Hunting-	ton Park
2 GP-4427 E Lockwood av		Hutchinson, Helen C.	Los Angeles
Hixson, Lura	La Verne	1 HE, C, Elm-4415 E Lockwood av	
1 GP-4339 Normal av	Wil 1872	Ingram, Agnes	Los Angeles
Hocking, Ruth	Pasadena	1 SH-2651 Hobard blvd	West 988
2 GP-4426 Melrose av	Wil 5570	Isely, Verna	Lindaay
Hoepfner, Marian	Hollywood	1 GP-2818 W Jefferson st	West 6555
1 GP-5433 La Mirada av	Holly 4437	Jahraus, Pauline C.	Laguna Beach
Hofacker, Margaret	San Diego	2 GP-457 S Western av	56158
1 Kgn-Breeze apts, Venice		James, Harriett B.	Los Angeles
Hoffman, Louis	Los Angeles	2 GP-1042 Sanborn av	Wil 5826
2 GP-374 Shults st	39681	James, Margaret	Los Angeles
Holland, Hortense	San Pedro	1 Spec-Berendo School	Wil 862
1 GP-564 N Berendo st	Wil 8765		

James, Margaret	Compton	Los Angeles
1 HE, GP-4339 Normal av	Wil 1872	
Janks, M. S.	Los Angeles	W 1436
*1 FA, Spec-4211 Monroe st	Wil 1802	
Jaqua, Eunice	Van Nuys	Fillmore
2 GP	182J	
Jensen, Chrystal E.	Mt. Pleasant, Utah	
2 Kgn-611 N New Hampshire av	59054	
Jertberg, Pearl	Chino	
2 GP-2255 W Twenty-eighth st	75583	
Jessup, Gladys	Garden Grove	
1 GP-521 S Figueroa st	Bdwy 751	
Jewett, Mary M.	Hollywood	
1 Kgn-6025 Hollywood blvd	579752	
Johnson, Esther	Los Angeles	
1 Music-919 W Fiftieth st	Ver 7043	
Johnson, Leilla	Long Beach	
1 GP-4426 Melrose av	Wil 5570	
Jones, Alice	Los Angeles	
1 GP-5314 Huntintgon dr	E 1687	
Jones, Fred P.	Los Angeles	
*1 Mec A-R F D No. 2, box 368		
Jones, Grace	Loraine	
1 GP-4451 Lockwood st		
Jones, Odus	Phoenix, Ariz.	
1 Federal-553½ S Central av		
Jordan, Helen	Redlands	
2 GP-4339 Normal av	Wil 1872	
Joselyn, Henrietta	Long Beach	
1 GP-645 Heliotrope dr	Wil 418	
Jung, Louise	Ontario	
1 GP-3014 Kenwood av	77506	
Keen, Mary	Whittier	
2 Kgn-606 N Berendo st	Wil 5562	
Kendrick, Gladys	Los Angeles	
2 GP-4002 Walton av	Ver 2815	
Kennedy, Marian	Los Angeles	
1 HE, Elm, GP-424 Park View	556464	
Kennerley, Florence L.	Los Angeles	
*2 GP-2025 Aubrey st		
Kent, Eleanor	Long Beach	
1 GP-1148 Edgemont st	599903	
Kerley, Rosalee	Los Angeles	
1 FA, GP-836 S Kingsley dr	56457	
Kern, Helen	Whittier	
2 Kgn-Norwalk State Hospital,	Whittier 295	
Kern, Lila	Alhambra	
2 GP-827 S Garfield av, Alhambra		
Kerr, Marjorie	Porterville	
1 GP-625 N Berendo st	59406	
Kessler, Margaret	Long Beach	
2 GP-606 N Berendo st	Wil 5562	
Key, Anna Grace	Corona	
1 Kgn-4005 Monroe st	Wil 5970	
Kidwell, Evelyn	Long Beach	
2 GP-645 Heliotrope dr	Wil 418	
Kieley, Anna	Los Angeles	
2 GP-4370 Melrose av		
King, Alice	Los Angeles	
1 GP, Music-1581 W Twenty-third st		
King, Nettie Inez	Fillmore	
1 GP-733A N Normandie av		
King, Sarah N.	Fillmore	
*2 GP	53J	
Kinney, Estelle Jacqueline	Los Angeles	
2 HE, GP-2276 W Twenty-third st		
Kinaman, Julia	Los Angeles	
1 HE, Music-1055 W Thirty-fifth st		
Klar, Frieda	Corona	
2 GP-8661 Mettler st		
Kline, Gladys	Los Angeles	
2 Kgn-1216 W Fifty-second st	26756	
Kline, Mary	Los Angeles	
1 PE, GP-1605 Norton av	75066	
Knapp, Bertha	Los Angeles	
1 GP-1311½ Dewey av	W 4369	
Knapp, Hilda M.	Burbank	
*1 Kgn	188J	
Knox, Pearl	Whittier	
2 GP-600 W Hadley av	8471	
Kobler, Edna	Orange	
1 GP-606 N Berendo st	Wil 5962	
Kolinsky, Gladys	San Gabriel	
2 Mec A-Box 691, San Gabriel		
Korthauer, Ester L.	Hollywood	
1 HE, Elm, GP-746 Edgemont blvd		
	599998	
Krakauer, Felicity	Los Angeles	
*2 Kgn-175 S Virgil av	55081	
Kramer, Kathryn	Athens	
2 Kgn-5418 Russell av	59268	
Kress, Nellie M.	Los Angeles	
1 GP-625 Loomis st	10741	
Kreisher, Elizabeth	Los Angeles	
1 GP-428 E Forty-second st	S 4625W	
Krats, Marjorie	Los Angeles	
1 GP-1529 Fuller av	57406	
Krohn, Anna Cecile	Los Angeles	
*2 GP-4248 Monroe av	Wil 2221	
Kyle, Helen	Long Beach	
2 GP-701 Edgemont av	597679	
Lacock, Grace	Eureka, Ill.	
2 Kgn-8527 Gramercy pl	W 6404	
Lacy, Barbara	Los Angeles	
2 GP-528 W Vernon st		
La Force, Jeannette	South Pasadena	
2 Kgn-1117 Vermont av, S Pasadena		
	35767	
Lake, Ellen	Redlands	
2 GP-762 Heliotrope dr	Wil 5987	
Lake, Estelle D.	Los Angeles	
1 GP-6785 Leland way	579452	
Land, Ruth	Phoenix, Ariz.	
2 GP-611 N New Hampshire av	59054	

Landis, Mrs. Estella	Lancaster	Lovell, Eugenia	Los Angeles
1 SH-4638 Vermont pl	Holly 844	2 Kgn-2806 Harvard blvd	W 2723
Lane, Marie W.	Hollywood	Loynachan, Gertrude M.	Pasadena
2 Coml-1853 Las Palmas av	579189	1 GP-742 N Chester av, Pasadena	Colo 1584
Langworthy, Valucia	Los Angeles	Lundy, Louise	Los Angeles
12 GP-4313 Budlong av		2 GP-1106 W Forty-fifth st	
Lavin, May	Portland, Ore.	Luttrell, John Earnest	Burbank
2 GP-715 Superba st, Venice		12 Mec A	
Lauber, Hettie	Kings City	Lynch, Pauline Frances	Hollywood
12 GP		1 SH-1722 Wilcox av	577931
Lawrence, Madeleine	Los Angeles	McAllister, Gwen	Santa Monica
1 GP-426 S Oxford av	568869	1 GP-1316½ Kingsley dr	599152
Laycock, Elice B.	Ontario	McAulay, Hulda	Long Beach
1 GP-6665 Sunset blvd	579651	1 HE, Elm, GP-1013 N Hobart blvd	Holly 281
Lee, Elva May	Pasadena	McAuliff, Margaret	Porterville
1 FA, GP-1486 Morton av, Pasadena	Colo 8393	1 GP-138 N St. Andrews pl	
Leech, Venetia	Los Angeles	McCall, Mildred	Los Angeles
1 FA-1825 Roberts av	73245	1 GP-1202 New Hampshire av	W 4816
Leeper, Margaret	San Bernardino	McCarrell, Minerva	Redondo Beach
2 Kgn-762 Heliotrope dr	Wil 5917	12 HE, Elm, GP-235 S Elena av, Redondo	178W
Leggett, Cornelia L.	Los Angeles	McClain, Ethel	Los Angeles
2 GP-1728 W Fifty-first st	Ver 4877	12 GP-232 E Sixty-fourth st	
Lembka, Edna	Los Angeles	McClain, Sadie	Santa Ana
2 GP-4716 Santa Monica blvd		1 GP-571 Sepuvela st, San Pedro	
Leonard, Agnes	Los Angeles	McCallen, Ethel H.	Los Angeles
1 Kgn-1456 Twelfth st	W 1102	1 HE-2743 W Fifteenth st	73413
Lew, Frances Enid	Thermal	McCourt, Dorothy	Hermosa Beach
1 FA, HE-5321 Romaine st	Holly 948	2 GP	
Lewis, Irene	Pasadena	McCully, Florence	Los Angeles
2 HE, Elm, GP-78 S Roosevelt av, Pasadena	Colo 750	1 Com-1140 Elden av	51207
Lieske, Therese	Los Angeles	McDonald, Christina	Los Angeles
12 Kgn-656 N Madison av		12 GP-1720 W Forty-first st	
Lindsay, Elisabeth	Los Angeles	McDonald, Lyda	Los Angeles
1 GP-1542 Vista st		2 GP-1627 S Hoover st	W 4417
Lindsay, Margaret Forbes	Los Angeles	McDonald, Ralph	Los Angeles
1 GP-1640 Martel av	57529	1 MA-5332 Santa Monica blvd	
Lindsley, Alice	Pasadena	McFarland, Hazel	Garden Grove
2 HE, El, GP-746 E Orange Grove, Pasadena	Colo 1927	1 GP-4426 Melrose av	Wil 5570
Lindsay, Gladys	Los Angeles	McFarren, Vivian	Los Angeles
12 Music, Gen-2824 S Flower st	21670	12 Kgn-629 N New Hampshire av	
Lindsley, Jean Lorene	Los Angeles	McGill, Gertrude	Los Angeles
2 FA-2824 S Flower st	21670	2 GP-1836 N Van Ness av	599627
Livingstone, Helen	Los Angeles	McGinnis, Mary	Los Angeles
1 GP-927 Edgemont st	Wil 3678	1 GP-2217 Marathon st	Wil 4856
Lockman, Bernice	Los Angeles	McKeag, Helen	Hollywood
1 GP-1736 McCadden pl		1 FA, Elm-4636 Melbourne av	Holly 481
Lockwood, Mary	Los Angeles	McInnes, Wilma	Los Angeles
1 PE-903 S Westlake av	51081	1 HE-1547 Sierra Bonita av	577587
Loftus, Henrietta Atafford	Alhambra	McKinney, Emily	Los Angeles
1 GP, FA-2411 Ynez av, Alhambra		1 GP-4339 Normal av	Wil 1782
Lookabaugh, Alice	Los Angeles	McKenzie, Isabel	Santa Monica
2 MA-1936 E First st	41373	2 HE, GP-1427 Ninth st, Santa Monica	859W
Lovejoy, Arthur L.	Los Angeles	McLaughlin, Carol	Palms
12 GP-5655 Buchanan st		1 GP, Music-Box 84, Washington blvd, Palms	
Lovejoy, Grace	Burbank		
1 Music-312 Palm av, Burbank			

McManus, John S.	Los Angeles	Anaheim
1 GP-6665 Sunset blvd	579651	Holly 1283
McNinch, Ruth	Los Angeles	Los Angeles
1 Kgn-1242 Bellevue av	52069	'2 GP-737 E Twenty-first st 25778
McQuigg, Genevieve	Los Angeles	Los Angeles
'1 Spec Coml-682 N New Hampshire av		
Macbeth, Lenore	Los Angeles	
1 GP-8930 Walton av	Ver 1913	
Macintyre, Emma	Los Angeles	Los Angeles
2 GP-1088 N Coronado st	Wil 781	
Magill, Marguerite	Colton	Los Angeles
1 GP-1707 W Pico st	58574	
Magner, Mrs. Winifred G.	Los Angeles	Glendale
'1 SH-802 N Juanita st	Wil 49	
Magness, Myrtle	Glendale	G 1697W
1 Kgn-120 W Park av, Glendale		
Mahoney, Alice	Los Angeles	Los Angeles
2 Coml Elm-425 W Twenty-second st	W 4518	
Mallat, Irene	Los Angeles	
2 GP-4415 N Lockwood av		
Malmberg, Ruth	Los Angeles	Los Angeles
2 GP-6714 Miramonte blvd		Wil 5438
Malsbary, Wilda L.	Riverdale	Whittier
2 GP-445½ E Twenty-seventh st	S 1044W	2 Coml-629 N New Hampshire av Wil 1240
Manile, Kathryn	Los Angeles	Mittke, Clara Los Angeles
2 Kgn-383 N Alta st		'2 GP-649 N Berendo st 599171
Marcellus, Ruth	Pasadena	Mize, Zalla El Monte
2 GP-Y W C A House, Heliotrope dr		1 GP-807 S av 21 E 2034
Markowitz, Jane	Los Angeles	Moddrell, Ethel Los Angeles
1 GP-2255 Brandon st		'2 GP-1546 Winfield st Wil 4726
Marks, Mrs. Clara M.	Hollywood	Moddrell, Joe Los Angeles
1 Coml-4716 Santa Monica blvd		1 Coml-1546 Winfield st Wil 4726
	Holly 2569	Moddrell, Letha Los Angeles
		'1 HE GP-1546 Winfield st Wil 4726
Martinez, Katherine	Los Angeles	Mode, Emily Hollywood
2 GP-464 W Vernon av		2 GP-4716 Santa Monica blvd Holly 2569
Mason, Clara B.	Burnett	Modesto, Ernestina Los Angeles
2 GP-747 Heliotrope dr	59092	'2 GP-1289 S Vermont av 54105
Matheson, Matilda J.	Los Angeles	Moll, Lillian Los Angeles
2 Coml-706 W Forty-seventh st	Ver 2089	1 GP-2909 Baldwin st E 1061
Mattox, Luverne	Los Angeles	Monroe, Grace Claremont
1 Kgn-1016 N Berendo st	Holly 1989	2 GP, HE, Elm-762 Heliotrope dr Wil 5937
Maxwell, Maude I.	Roosevelt	Montgomery, Claire Los Angeles
2 GP-615 N Berendo st	59245	1 GP-1702 S Grand av Main 4509
Maynard, Helen	Los Angeles	Montgomery, Dorothy Los Angeles
'2 GP-2759 Francis av		1 GP-412 W Sixty-third st Los Angeles
Meade, Edna	Los Angeles	Montgomery, Florence Los Angeles
1 GP-1877 W Twenty-seventh st	22295	2 GP-412 W Sixty-third st Los Angeles
Meal, Addie Rith	Atwater	Montgomery, James Los Angeles
2 GP-685 W Fifty-fifth st	Ver 208	2 Coml-1248 Dewey av W 3213
Merrill, Lillian	Los Angeles	Moore, Edith Los Angeles
1 GP-2914 N Broadway	E 241	1 GP-2787 W Twelfth st 78947
Merrin, Mabel June	San Diego	Moore, Mildred B. Pomona
'1 GP	Hillcrest 2559	1735 E Fifth st, Pomona 8127
Merritt, Mary	Hollywood	Moosekian, Gladys Los Angeles
'2 Kgn-734 N Ardmore av	Holly 2953	1 Coml-984 W Thirty-sixth st
Mespelt, Gladys	Los Angeles	Morero, Rose L. San Pedro
2 GP-856 N Virgil av	59347	2 GP-645 Heliotrope dr Wil 418

Morgan, Sarah M.	Los Angeles	Offutt, Ruby M.	Los Angeles
1 GP-2702 Halldale av		2 GP-1626 W Thirty-fifth st	West 6661
Morris, Adelaide	Los Angeles	Ogilvie, Thomas S.	Los Angeles
2 FA-904 W Fifty-second st	Ver 8740	1 Spec, Mec A-211 E Twenty-seventh st	28486
Morton, Dorothy	Santa Barbara	Old, Louise E.	Los Angeles
1 Kgn-701 Edgemont blvd	597679	2 HE-1949 Hillcrest rd	579552
Moses, Mertie	Pasadena	Oldham, Rosalie	El Centro
1 FA-529 N Los Robles av, Pasadena		1 Kgn-915 N New Hampshire st	
Moses, Phyllis	Venice	Olson, Dollie Esther	Pasadena
1 GP-1488 W Fiftieth st	Ver 2101	1 HE, Elm, GP-120 N Lake av, Pasadena	Colo 1431
Mosher, Dorothy	Los Angeles	Olson, Harold S.	Pomona
1 Kgn-1117 W Thirty-sixth st		2 Coml-688 Heliotrope dr	51421
Mosher, Helen	Los Angeles	Olson, Hazel	Olney, Ore.
1 FA-601 Rampart st	50051	2 GP-620 N Berendo st	599491
Mosher, Mae Ruth	Los Angeles	O'Reilly, Marguerite	Los Angeles
2 GP-508 N Commonwealth av	599862	1 GP-5506 S Main st	
Mosk, Bertha W.	Los Angeles	Ostermann, Hazel Soldiers' Home, Sawtelle	
1 Spec-6100 DeLongpre av		1 GP	Santa Monica 510
Mudgett, Marion	Los Angeles	Painter, Mable F.	Los Angeles
1-912 S Carandelest st		12 GP-430 N Beaudry st	Main 4451
Moulton, Helen	Los Angeles	Palmer, Lenora	Los Angeles
1 Spec-1201 S Bronson av		1 GP-525 W Forty-second st	29265
Mueller, Frieda	Los Angeles	Palmer, Ruth	Glendale
1 GP-519 E Twenty-first st		1 FA-1008 E Colorado blvd, Glendale	Glen 502J
Murphy, Gracia	Bakersfield	Palmer, Thella	Santa Monica
2 GP-732 Heliotrope dr	599187	1 Kgn-1248 Twelfth st, Santa Monica	
Narver, Alice Lovejoy	Hollywood	Palomares, Rafaelita	La Verne
12 GP-1302 N Hobart blvd	Holly 2175	2 GP-1420 S Flower st	Pico 2811
Nash, Leta	Covina	Pann, Winifred	Riverside
1 Music-4108 Rosewood av	599821	2 HE, GP-1025 N Vermont av	199465
Nellermoe, Alpha	San Fernando	Pardee, Mildred	Long Beach
2 GP-645 Heliotrope dr	Wil 418	1 PE-141 Elm av, Long Beach	1552
Nellermoe, Blanche	San Fernando	Parker, Alice G.	Hollywood
2 GP-645 Heliotrope dr	Wil 418	2 GP-7717 Hampton av	Holly 2018
Newton, Lela	Norwalk	Parker, Esther Lillian	Porterville
2 GP-6194 Heliotrope dr	577894	1 HE, GP-625 N Berendo st	59406
Newton, Lois	Highland	Parker, Dorothy	Los Angeles
1 GP-336 Loma dr		12 Kgn-966 Magnolia av	52282
Nichols, Emma	Los Angeles	Parker, Lucile C.	Glendale
1 Spec-1737 Maple av	25770	2 HE, GP-121 W Maple av, Glendale	Glen 118
Nicholson, Helen	Los Angeles	Parker, Margaret	Hollywood
1 Music-1129 W Twenty-first st	21959	1 GP-6900 De Longpre av	579954
Nier, Mary	Los Angeles	Parks, Jessica M.	Santa Monica
1 GP-5000 Gramercy pl		12-947 S Kingsley dr	Wil 880
Nimocks, Mrs. May	Los Angeles	Parks, Laura H.	Los Angeles
2 GP-1258 Cypress av		1 HE-2618 Jeffries av	E 2828
Nobles, Dorothy Alme	Bow, Wn.	Parks, Merle	Los Angeles
12 HE, Elm		1 Kgn-252 E Twenty-eighth st	56221R
Nofziger, Gladys	Glendale	Parsons, Emily	Whittier
1 GP-1280 S Mariposa av, Glendale		1 GP-511 Pennsylvania av, Whittier	7571
Northrop, Helen	Hollywood	Partridge, Irene F.	Los Angeles
1 PE, GP-6857 Franklin av	579146	1 SH-1124 Logan st	55289
Norton, Mildred	Los Angeles	Partridge, Wallace S.	Los Angeles
1 GP-1015 Hawley st	Bdwy 5882	1 Federal-641 St. Paul av	Bdwy 272
Nye, Ruth T.	Los Angeles		
2 FA-606 N New Hampshire st			
O'Connell, Margaret	Los Angeles		
1 GP-393 W Fortieth pl	S 6005J		
O'Connor, Olive	Venice		
1 GP-12 Florence av, Venice			

Paterson, Ormonde	Los Angeles	Phillipps, Vivienne C.	Pasadena
1 HE-225 N Hope st	Bdwy 3226	2 Kgn-620 N Berendo st	599491
Patterson, Marjorie	Huntington Park	Picou, Alma	Los Angeles
12 GP-201 S Santa Fe av, Huntington Park		1 PE, GP-237 W Eighteenth st	Bdwy 3387
Patterson, Martha	Los Angeles	Pielemier, Hertha	Vincennes, Ind.
12 GP-1292 W Thirty-seventh dr W 234		2 Kgn-1421 Heliotrope dr	Wil 1475
Pearce, Mrs. Floyd M.	Fillmore	Pierce, Gertrude	Los Angeles
12 GP		2 GP-618 W Forty-second st	
Pease, Gertrude	Alhambra	Pierson, Mrs. C. F.	Los Angeles
1 GP-907 N Wilson st, Alhambra	748R	1 GP-4456 Willowbrook av	
Peckham, Madeleine	Los Angeles	Pine, Beryl	Chino
1 FA, GP-4440 Burns av		1 GP-4233 Monroe st	Wil 938
Pedlow, Gladys	Los Angeles	Pine, Loraine	Chino
2 HE-519 S Westmoreland av	54824	1 GP-615 N Berendo st	59245
Peifer, Gwendolyn	Santa Monica	Pine, Mary F.	Bloomington
2 GP-4426 Melrose av	Wil 5570	1 GP-615 N Berendo st	59245
Perkins, Janet	Glendale	Pinneo, Frances	Tulare
2 GP-1215 Brand blvd, Glendale		2 GP-601 N Berendo st	599309
Perry, Adelaide H.	Los Angeles	Plischke, Ruth	Los Angeles
1 GP-622 S Kenmore av	568327	1 GP-1809 W Twenty-fourth st	W 1516
Perry, Alma C.	San Dimas	Podolsky, Mrs. B.	Los Angeles
2 Kgn-4421 Lockwood av		12 GP-306 W Thirty-eighth st	22709
Perry, Alice Window	Highlands	Polostri, Mrs. Mabel	Los Angeles
1 GP-4243 Monroe st	Wil 2221	2 Kgn-4024 S Hobart blvd	79361
Perry, Emile R.	Highlands	Politowski, Della	Los Angeles
1 GP-4243 Monroe st	Wil 2221	1 GP-2115 Naomi av	
Peters, Eva	Alhambra	Pollard, Florence	Los Angeles
2 GP-1009 N Garfield av, Alhambra		1 GP-3933 Marmion way	
Peters, Victor Wellington	Los Angeles	Ponti, Elba	San Pedro
1 GP-3447 S Flower st	20054	1 GP-824 Kensington rd	54676
Peterson, Goldie Trout	Burbank	Poole, Hallie	Monterey Park
1 GP-335 Angeleno av, Burbank		2 HE, Ele, GP-2921 Moore av, Monterey Park	
Peterson, Leona	Los Angeles	Potter, Marjorie	Los Angeles
1 PE-1744 1/2 N Branson av		1 HE, El, GP-7411 Hawthorne av	577885
Petroskey, Helen	Santa Monica	Poundstone, Mildred	Los Angeles
1 PE, GP-1330 Eighth st, Santa Monica		1 Music, El-1508 Sixth av	W 3137
Pew, Gladys H.	Palms	Powell, Mary	Los Angeles
2 PE-R F D 1, Palms		1 GP-1149 Hoover st	
Pfau, Louisa	Hollywood	Prael, Mrs. Mary Crusan	Los Angeles
2 Music, GP-909 N Kingsley dr	Holly 105	1 SH-Bellevue Terrace Hotel	
Phelps, Margaret E.	Altadena	Prescott, Carrie Summerlin	Los Angeles
2 GP-Calaveras and Marengo avs, Altadena	FO 1259	1 GP-1341 Crown Hill av	Main 5248
Phillips, Marion	Pasadena	Preston, Blanche	San Bernardino
12 GP-343 N Los Robles av, Pasadena		1 HE, GP-601 N Berendo st	
	Colorado 8327	Quandt, Edith	Torrance
Philleo, Ruth	Los Angeles	1 GP	
1 GP-453 S Wilton pl	567284	Quinn, Mary E.	Los Angeles
Phillips, Elizabeth	Glendale	1 GP-607 W Fortieth pl	288034
12 GP-514 E Harvard blvd	441W	Railsback, Mildred	Los Angeles
Philips, Ida M.	San Bernardino	1 GP-1020 S Burlington av	558942
12 GP-237 Sixth st, San Bernardino		Rankin, Mildred	Los Angeles
Phillips, Paul B.	Los Angeles	2 GP-429 W Forty-first pl	S 4218
1 Mec A-761 N Kenmore av		Raybold, Vivian	Los Angeles
Phillips, Ruth L.	Long Beach	1 GP-4121 Monroe st	
2 Music-3716 Arlington av	West 1335	Rau, Mabel	Hollywood
		2 Kgn-1110 Edgemont av	Holly 4355

Rea, Mary Esther	Los Angeles	Roan, Violet V.	Pasadena
1 PE-3074 E Sixth st		'1 Coml-420 S El Molino av, Pasadena	
Rector, Wilhelmina	Los Angeles	Roberts, Vivian	Los Angeles
'2 Music-718 S Hobart blvd		1746 N Mariposa av	599363
Redit, Edith E.	Anaheim	Robbins, M. Clare	Sawtelle
. 1 GP-4716 Santa Monica blvd		'2 GP-506 N Fair Oaks av, Pasadena	
	Holly 2569		FO 2280
Reeves, Jessie M.	Pomona	Roberts, Margaret	Alhambra
1 HE, Elm, GP-7033 Mariposa av		2 GP-980 N Olive st, Alhambra	
Reid, Katherine Alberta	Burbank	Robertson, Elva	Fullerton
1 HE, Elm, GP-601 W Second st, Burbank	256R	2 GP-619½ Heliotrope dr	597894
Reinhard, Isis	Los Angeles	Robinson, Alberta	Bozeman, Mont.
'2 GP-4109 Los Feliz av	59491	'1 GP-632 N New Hampshire av	
Reisch, Bernice	Orange		Wil 2264
2 GP-831 N Mariposa av	59267	Robinson, Carol	San Dimas
Remmers, Mayme	Pasadena	1 GP-4339 Normal av	Wil 1812
'1 GP-1149 N Raymond av, Pasadena		Robinson, Ethel	Whittier
	Colo 290	2 GP-302 S Comstock av, Whittier	
Rench, Edna Rose	Pasadena	Robinson, Jane A.	Los Angeles
2 GP-221 S Benton way	558620	2 GP-4157 Melrose av	
Revell, Lena M.	Pomona	Robison, Irma E.	Buena Park
2 GP-4532 Willowbrook av		1 GP-1818 S Harvard blvd	
Reynolds, Edna	Los Angeles	Rode, Rosemary	Los Angeles
1 GP-320 E av 31	East 1676	1 GP-1342 Calumet av	Main 7991
Reynolds, Ellen May	Newhall	Rogatsky, Ruth Elsie	Pasadena
2 GP-1013 N Hobart blvd	Holly 281	2 GP-167 Worcester av, Pasadena	
Reynolds, Katharine	Los Angeles		FO 2951
'1 FA-1861 Buckingham rd	73438	Root, Marion Zuleime	Long Beach
Reynolds, Virginia	Los Angeles	2 GP-4823 Staunton av	S 3699J
'1 FA-1861 Buckingham rd	73438	Ross, Eunice	Los Angeles
Rich, Portia	Grand Junction, Colo.	1 Music-831 S Hope st	
1 PE, GP-1025 N Vermont av	599465	Ross, Jane	Ocean Park Heights
Richardson, Katharine	El Monte	1 GP	5431
2 Coml-1437 W Twenty-ninth st		Rottman, Arri	Los Angeles
Richardson, Lois	Long Beach	'1 FA-Prince Rupert apts	Wil 5800
1 Kgn-Liberty apts, Long Beach		Roulstone, Mrs. Jessie I.	Los Angeles
Riddle, Gladys	Owensmouth	1 GP-4532 Willowbrook av	
1 GP-653 N Berendo st	Wil 1232	Rouner, Helen R.	Los Angeles
Riedeman, Lurena E.	Los Angeles	1 GP-623 Carondelet st	Wil 50
2 GP-4426 Melrose av	Wil 5570	Rowe, Gladys	Pasadena
Rifkind, Jeannette	Los Angeles	2 GP-27 Pepper st, Pasadena	
2 GP-3447 Ninth av	West 6556	Rowell, Florence	Los Angeles
Riggins, Jimmie	Los Angeles	2 PE, GP-1560 E Thirty-second st	
'2-1305 Ingraham st	50056	Rowley, Burton	Santa Ana
Riha, Mellie	Los Angeles	'2 MA-914 Bush st, Santa Ana	
1 GP-4460 Willowbrook av		Rowley, Mattie	Los Angeles
Riley, Portia A.	Los Angeles	2 GP-2071 La Salle av	72944
2 HE, Elm, GP-200 N Rampart blvd		Rudd, Grace	Gardena
	53990	2 HE, GP-4426 Melrose st	Wil 5570
Ring, Sophia H.	Astoria, Ore.	Ruhe, Fay	Los Angeles
620 N Berendo st	599491	. 2 GP-3876 Clinton st	
Ritchey, Willis G.	Pasadena	Rummel, Gertrude	Los Angeles
2 GP-519 N Mentor av, Pasadena		1 Coml-1047 W Thirty-sixth st	
	Colo 1941	Rupert, Verda J.	Los Angeles
Roach, Albert E.	Los Angeles	2 GP-4544 Kingswell av	
2 GP-1220 W Fifty-seventh st	26869	Rush, Mrs. Berth C.	Los Angeles
Roach, Charles G.	Los Angeles	2 GP-652 N Vermont av	59668
2 Mec A-1220 W Fifty-seventh st	26869	Ryan, Lolita	Hollywood
		1 GP-1921 Hillhurst av	Holly 1508

Rykoff, Bessie	Los Angeles	Shapiro, Tillie	Los Angeles
1 GP-2749 W Ninth st	Wll 3424	1 GP-1154 W Thirtieth st	West 6014
Ryon, Portia	Watts	Sharlip, Ruth	Los Angeles
1 GP-1159 Commonwealth av		1 Music, GP-1507 E Twentieth st	S 861
St. Clair, Ethel	Hollywood	Sharpe, Mrs. Mary B.	Pasadena
2 GP-6461 Santa Monica blvd		2 GP-1320 W Fifth st	Bdwy 525
St. John, Thelma	Los Angeles	Shaughnessy, Frances	Los Angeles
1 GP-3425 Beswick st		1 GP-1041 Westlake av	Wll 6686
St. Pierre, Clara	South Pasadena	Sheets, Marcissa	Los Angeles
2 GP-624 El Centro av, S Pasadena		2 Coml-1567 E Thirty-third st	21957
Sandus, Annette	Los Angeles	Shellenberger, Louise	Los Angeles
2 GP-4216 S Flower st	S 5539	1 Music, Elm-1129 W Twenty-first st	21959
Savage, Mary Hester	Long Beach	Sherbing, Maude	Pasadena
1 Kgn-909 N Kingsley dr	Holly 105	1 GP, Elm-124 W Walnut st, Pasadena	21957
Saunders, Dorothy	Los Angeles		
1 FA, GP, El-2280 W Twentieth st	W 1725	Sherrill, Leola	Houston, Tex.
Sawyer, Maebel	Oxnard	1 GP-Granada Hotel	
2 GP-4426 Melrose av	Wll 5570	Sherlock, Genevieve	Los Angeles
Sayer, Mrs. Florence R.	Los Angeles	1 GP-1026 Heliotrope dr	599661
2 Coml-1709 Oxford av	78157	Sherman, Elma	Burnett
Scheffler, Margaret	Los Angeles	1 GP-911 Mariposa av	599027
1 GP-3609 McClintock av	23227	Sherman, Irma	Los Angeles
Scheck, Helen	Los Angeles	1 Kgn-981 W Forty-second st	
1 HE, Elem-4208 Halldale av		Shields, Gladys	Goldfield, Nev.
Scheu, Leland	Los Angeles	2 Kgn-628 N Alexandria av	
1 Coml-2405 W Sixth st	51605	Shields, Irene	Alhambra
Schick, Lillian Mae	Glendale	1 Kgn-226 N Marguerita av, Alhambra	
2 Kgn-715 S Central av, Glendale	Glen 325J	Shields, Margaret	Alhambra
Schilling, Kathryn A.	Long Beach	1 Kgn-226 N Marguerita av, Alhambra	
1 PE GP-1055 Magnolia av, Long Beach	9501	Shorten, Lois	Hollywood
Schleicher, Dorothy	Los Angeles	2 Kgn-4421 Santa Monica blvd	597962
2 HE, Elm, GP-189 N Workman av		Shower, Hasen E.	Monrovia
Schneider, Muriel	Riverside	2 Spec Coml	
2 GP-4339 Normal av	Wll 1872	Shriner, Viola	Burbank
Schremp, Esther	Glendale	1 FA-Route A, Box 244, Burbank	
1 GP-342 W Broadway, Glendale	Glen 56W	Shurtleff, Flavia	Los Angeles
Schroeder, Freda	Santa Ana	1 Kgn-2180 W Twenty-fourth st	71025
2 HE, GP-645 N Heliotrope dr	Wll 418	Silka, Violet Mabel	Pasadena
Schurman, Florence E.	Ventura	2 GP-77 S Craig av, Pasadena	F O 1586
1 GP-903 N Edgmont st	Wll 160	Simmons, Mabel	Los Angeles
Schurman, Grace	San Fernando	1 GP-834 W Thirty-sixth pl	
2 HE, Elm	Green 312	Simmons, Adeline E.	Los Angeles
Scott, Mrs. Beatrice	Los Angeles	1 PE, GP-385 Third av	
2 GP-2141 Echo Park av	Wll 2289	Simmons, Verna Wilbur	Los Angeles
Scott, Marjorie	Los Angeles	1 FA-669 S Park View st	Wll 1339
1 Kgn-732 W Forty-fifth st	Vt 6121	Simpson, Mildred	Los Angeles
Scott, Myrtle	Hanford	1 GP-1815 W First st	Wll 3053
2 GP-715 N New Hampshire av	Wll 3910	Sinke, Mrs. Carl A.	Santa Ana
Sears, Elsie	Long Beach	1 SH-607 S Coronado st	557993
1 GP-701 Edgemont av	597679	Sintes, Jeanne M.	Los Angeles
Sears, Helen	Bakersfield	2 GP-4256 S Harvard blvd	
1 GP-682 N New Hampshire av	W 2264	Sittell, Marie	Los Angeles
Sears, LaVeta	Hemet	1 GP-3730 S Main st	S 1866R
1 GP-733 Normandie av		Smith, Althea	Los Angeles
		1 GP-2820 Second av	West 5951
		Smith, Anna G.	Los Angeles
		2 PE-511 S Bixel st	Bdwy 6779
		Smith, Carrie E.	Los Angeles
		2 Special-6152 Mesa av	

Smith, Dorothea	Los Angeles	Stewart, Lorena	Los Angeles
1 GP-915 W Thirty-seventh st		2 GP-1462 E Fortieth st	
Smith, Eleanor	Santa Barbara	Stewart, Ethel V.	Gardena
1 Kgn-1016 N Berendo st	Holly 1939	2 FA, GP-R. F. D. No. 2, Box 190, Gardena	Wilmington 176J2
Smith, Frances Lyday	Los Angeles	Stewart, Mabel	Los Angeles
*1 Kgn-1012 Edgemont av		1 GP-929 E Tenth st	Bdwy 5046
Smith, Genevieve	Long Beach	Stewart, Thirza Alberta	Gardena
1 Kgn-147 S Virgil av	556512	1 MA, GP-R. F. D. No. 2, Box 190, Gardena	Wilmington 176J2
Smith, Helen K.	Los Angeles	Stipe, Beattie	Cucamonga
*2 GP-948 Heliotrope dr	507107	2 GP-4426 Melrose av	Wil 5570
Smith, Marjorie Ruth	Los Angeles	Stockley, Amy C.	Los Angeles
2 Kgn-2857 W Twenty-second at	71939	2 GP-1358 S Hope st	22716
Smith, Marion M.	Olney, Ore.	Stoetzel, Charlotte	Los Angeles
2 GP-620 N Berendo st	599491	2 GP-8924 Woodlawn av	288085
Smith, Velma	Covina	Stolley, Mrs. Bertha	Shafter
1 GP-645 Heliotrope dr	Wil 418	2 GP-4820 Lockwood av	Wil 2372
Smith, Virginia	Los Angeles	Stone, Ethel C.	Thermal
2 GP-1126 Forty-fifth st		2 GP-1070 W Thirty-fifth st	28106
Smitheram, Gertrude	Riverside	Stone, Ila M.	Thermal
2 GP-4389 Normal av	Wil 1872	2 Kgn-1070 W Thirty-fifth st	28106
Snider, Marjorie Ruth	Colton	Stork, Mrs. A. M.	Los Angeles
1 Kgn-647 N Mariposa av		2 Special-263 S Wilton pl	568728
Snyder, Helen	Los Angeles	Stover, Ruth	Los Angeles
2 Kgn-918 Euclid av	Boyle 894	1 Kgn-1183 Lake Shore av	Wil 5966
Snyder, Louise	Los Angeles	Stow, Minerva	Riverside
1 GP-R. F. D. 10		2 PE, GP-1025 N Vermont av	599465
Sparks, Hazel	Los Angeles	Strader, Maryetta	Pasadena
*2 GP-910 Grand View st	1152W	1 GP-R. F. D. No. 2, Box 218, Pasadena	Colo 8210
Speck, Helen	Los Angeles	Stratford, Muriel A.	Pasadena
2 Coml-2815 Manitou av	East 624	2 GP-511 S Marengo av, Pasadena	FO 2862
Spencer, Pauline	Los Angeles	Strebe, Viola L.	Santa Monica
*2 Kgn, GP-150 W Fifty-fifth st	28994	2 GP-7044 Seventh st, Santa Monica	
Speira, Beattie H.	Santa Monica	Strock, Elizabeth	Alhambra
2 GP-1717 Sixteenth st, Santa Monica		2 GP-701 Edgemont av	597679
Sprague, Hazel	Santa Ana	Stroud, Laura	Perris
*1 GP-4238 Monroe st	Wil 918	2 GP-5386 La Mirada st	Holly 1288
Squire, Loyd	Burbank	Strudwick, Hilda	Huntington Park
*2 Mech A		2 HE, GP-600 Lyforte av, Huntington Park	
Stanton, Mrs. Nellie P.	Puente	Stuart, Helen C.	Los Angeles
*2 GP		*2 GP-908 W Slauson av	Ver 1291
Starkweather, Effie	Townsend, Mont.	Stupp, Hazel	Los Angeles
2 HE, GP-210 S Flower at	Bdwy 6082	1-157 Cudahy av	
Starr, Mildred	Huntington Beach	Sutphen, Elsie E.	Los Angeles
1 GP-645 Heliotrope dr	Wil 418	1 SH-1127 W Jefferson st	22596
Stedman, Lulu P.	Los Angeles	Sutter, Nelle J.	Los Angeles
2 Special-2041 W Twenty-eighth st	73828	1 GP-Hotel Shoreham	Main 2041
Steffen, Jeanette	Los Angeles	Swartwood, Lola	Los Angeles
1 Music, GP-221 N Fremont av	Bdwy 1024	2 GP, HE-4851 Normal av	Wil 6018
Steiner, Marie	San Luis Obispo	Swire, Mabel	Grand Junction, Colo.
2 GP-645 Heliotrope dr	Wil 418	1 HE, GP-1145 W Thirty-seventh pl	77840
Stempel, Emma	Los Angeles	Takemoto, Kyhel	Hollywood
2 HE, GP-1412 Girard st	Bdwy 5029	2 Special-1641 Cosmo st	
Stern, Elsie	Los Angeles	Tappeiner, Maud	Los Angeles
1 PE, GP-237 S Beaudry av		1 GP-412 W Twenty-eighth at	S 801J
Steves, Clara	Hemet		
2 GP-1137 N Vermont av			
Stewart, Catherine	Los Angeles		
1 PE, GP-650 N Kenmore av	599791		

Tarleton, Florence	Los Angeles	Trankle, Jessie	Redondo Beach
12 GP-1605 Golden Gate av	Wil. 2242	2 GP-716 N Serena av,	Redondo Beach
Taylor, Anna	Monrovia	Trapani, Frank	Burbank
1 GP-Box 278, Monrovia		1 Coml	
Taylor, Dorothy	Hollywood	Trautwein, Mary C.	San Gabriel
2 GP-1862 N Edgemont av	Holly 419	1 GP-R. D. No. 1, Box 181	
Taylor, Isabelle	Los Angeles	Trébaol, Jean, Jr.	Los Angeles
1 FA, GP-427 Rosemond av		2 Special-4820 Fountain av	
Taylor, Margaret	Glendale	Trinkle, Clara	Los Angeles
2 GP-600 S Central av, Glendale		1 GP-1552 E Thirty-ninth st	S 4500J
	Glen 1482	Truesdale, Bernice	Shandon
Taylor, Olive	Glendale	1 GP-2533 E Fifty-fourth st	
2 GP-600 S Central av, Glendale		Trueblood, Helen	Whittier
	Glen 1482	2 PE, GP-1025 Vermont av	599465
Teal, Mrs. Edith	Sawtelle	Tryce, Thelma	Los Angeles
2 Special-505 Rochester av, Sawtelle		1 GP-4420 Esmeralda av	
Terry, Ina	Hanover, N. M.	Tuttle, Merton H.	San Pedro
1 GP-1524 W Washington st		1 Coml-518 N Berendo st	
Thach, Ina	Los Angeles	Tuthill, Gretchen	Hollywood
2 PE, GP-1622 W Fifty-second st		1 HE, GP-7320 Hollywood blvd	579870
	Ver 4548	Uzzelle, Gladys	South Pasadena
Thein, Mrs. Mah Thaw	Los Angeles	1 FA-1122 Meridian av, S Pasadena	35403
1 FA-309 W Adams st			
Thomas, Irma F.	Upland	Van Boven, Bernice	Whittier
1 Kgn-528 N Berendo st	Wil 1275	1 GP-4243 Monroe st	Wil 2221
Thomas, Marjorie	Los Angeles	Van Brunt, Klimene	Los Angeles
1 GP-1064 W Seventh st	Bdwy 5653	1 GP-6403 Primrose av	579815
Thomasson, Margaret	Hollywood	Van Buskirk, Anna	Oxnard
1 GP-7411 Hawthorne av		1 Coml, GP-711 N New Hampshire av	597541
Thompson, Agnes	Los Angeles	Van Degriest, Margaret	Los Angeles
1 GP-519 S Mariposa av	560054	1 GP-830 Kensington rd	
Thompson, Elizabeth	Los Angeles	Varble, Mildred	El Monte
1 Kgn-551 S Oxford av	568542	1 GP	
Thompson, Ethel	Murietta		
1 GP-168 S Kingsley dr	56476		
Thompson, Irene	Los Angeles		
2 GP-1775 Las Palmas av	57603		
Thompson, Nila	Los Angeles		
2 GP-6357 Sunset blvd	577153		
Thornburg, Goldie	Los Angeles		
1 GP-642 Madison av			
Thrall, Rosalind	Alhambra		
1 Kgn-4005 Monroe st			
Thrasher, Mellie	Burbank		
1 Kgn-372 N Verdugo av, Burbank			
	291R		
Tichenor, Norma Irene	Pasadena		
1 GP-257 N Marengo av	Colo 7652		
Tinkham, Verla	Palms		
1 GP-7635 Mentone av, Palms			
Tisnerat, Bexa R.	Pomona		
1 GP-800 N Normandie av			
Tobey, Zoe	San Fernando		
2 GP-6194 Heliotrope dr	597894		
Tobin, Mrs. Mina	Los Angeles		
1 SH-522 N Berendo st	597561		
Toliver, Mildred	Los Angeles		
1 GP-1442 La Prada Park	Garv 70		
Toms, Juanita	Los Angeles		
1 GP-732 E Pico st			

Walker, Clara Louise	Hollywood	West, Anita	Los Angeles
1 GP-1638 Poinsetta pl. Hollywood		1 GP-2180 Cambridge st	72881
	57680	West, Evelyn	Los Angeles
Walker, Edith	South Pasadena	2 GP-214 S Van Ness av	560971
2 FA-1221 Lyndon st, Pasadena		West, Mabel S.	Los Angeles
	Colo 2244	*Spec FA-2021 Holly dr	
Walker, Helen	Los Angeles	Westlake, Florence	Inglewood
*2 Kgn-215 N Hollenbeck st	Boyle 3995	1 HE, GP-121 Binford st, Inglewood	
Wall, Anna	Puente	Weston, Carol	Hollywood
1 GP-615 Berendo st	59245	*1 FA-6620 St. Frances Court, Hollywood	
Wallace, Helen	Eagle Rock	Wheeler, Fannie E.	Bluff Point, N. Y.
1 Coml-206 N Hartwick st, Eagle Rock		*2 GP-645 Heliotrope dr	Wil 418
Walter, Charles F.	Los Angeles	Wheeler, Ruby	Baldwin Park
1 Mech A-1788 E Forty-sixth st		1 HE, GP-1706 Santee st	8 7041
Walton, Jennie	Los Angeles	White, Ernestine	Bakersfield
1 FA-1326 Las Palmas av		2 GP-732 Heliotrope dr	599187
Waller, Jeniviee	Los Angeles	White, Ethel	Los Angeles
2 Kgn-1813 Van Ness av	West 6963	*1 GP-912 W av 54	89686
Ward, Blossom	Santa Ana	White, Irwin	Bakersfield
2 GP-4426 Melrose av	Wil 5570	2 GP-638 Heliotrope dr	59421
Ward, Mary A.	Los Angeles	White, Jessica	Santa Monica
1 FA, GP-4421 Willowbrook av		1 GP-613 Wilshire blvd, Santa Monica	823W
Warren, Allmerry Elizabeth	Long Beach	White, Margaret E.	Imperial
1 GP, FA-222 S Rampart blvd	6452	1 GP-2231 Romeo st	72996
Warren, Gladys	Bakersfield	White, Mary Frances	Los Angeles
1 GP-1016 N Berendo st	Holly 1939	2 FA, GP-728 N Normandie av	599212
Waterman, Marian Janice	Los Angeles	White, Thelma C.	Bakersfield
1 Kgn-434 Galena av		2 HE, GP-4426 Melrose av	Wil 5570
Waters, Irene	Los Angeles	Whitel, Ruth	Covina
1 HE-1249 N New Hampshire av		*2 GP-538 N Berendo st	59410
	Holly 2525	Whitworth, Miriam Lucile	Los Angeles
Weaver, Clara	Norwalk	2 PE, GP-1025 N Vermont av	599465
*2 GP-528 N Berendo st		Wickersheim, Elsie Louise	Los Angeles
Webber, Iva L.	Santa Ana	2 GP-5056 Romaine st	
2 GP-645 Heliotrope dr	Wil 418	Wickman, Amanda	Los Angeles
Weber, Antonio Pauline	Calabasas	2 GP-1821 S Hoover st	
2 GP-653 N Berendo st	Wil 1232	Wieman, Elizabeth Martha	Los Angeles
Weber, Statie May	Los Angeles	1 FA, GP-1319 Maryland st Bdwg 4547	
2 Special-6735 Leland way	577452	Wieman, Magdalen	Los Angeles
Weber, Verna Irene	Los Angeles	2 FA, GP-1319 Maryland st Bdwg 4547	
1 GP-60 N Berendo st		Wilcox, Rosa Lee	Los Angeles
Weedmark, Charles	Porterville	2 HE, GP-817 W Twenty-eighth st	23582
1 Mech A-308 Branch st		Wild, Florine	Los Angeles
Weeks, Ruth	Oxnard	2 GP-4238 Monroe st	
1 GP-602 Juanita st	Wil 49	Wildman, Thelma	Long Beach
Weidman, Beatrice	Riverside	2 GP-528 N Berendo st	Wil 1275
1 Kgn-625 Berendo st	59406	Wiley, William D.	Pasadena
Weiler, Ralph J.	Los Angeles	1 Mech A-162 Las Flores dr, Pasadena	
1 Com-535 S Gramercy pl	568191	Wilhelm, Eva E.	San Gabriel
Weinman, Viola	Los Angeles	1 PE, GP-433 N Oxford av	
2 HE, GP-2171 W Twenty-ninth pl	71814	Williams, Beula	Long Beach
Weinreich, Cora	Downey	1 GP, HE-345 E Fifth st, Long Beach	
1 GP		Williams, Kathryn	Seattle, Wn.
Welch, Iona	Los Angeles	*2 GP-4426 Melrose av	
*2 GP-2637 Brighton av	W 6302	Williams, Sylvia	South Pasadena
Wemken, Nellie Opal	White Hall, Ill.	*1 GP HE-1629 Crenshaw blvd	78377
2 GP-736 Heliotrope dr	597148		

Williamson, James C.	Venice	Woodhead, Charlene	Los Angeles
1 GP-546 San Juan st		1 GP-Bryson apts	Wil 2323
Willson, Alberta	Los Angeles	Wooley, Lucile	Santa Monica
*2 GP-546 W av 54	Garv 922	1 HE GP-Twenty-first and Brentwood	sta, Santa Monica
Wilson, Dorothea	Los Angeles	Worsham, Zela	Los Angeles
1 GP-906 W Eighty-fifth st	Ver 1832	2 GP-1117 S Mariposa av	Wil 6887
Wilson, Edris E.	Los Angeles	Wride, Jeanette	Lethridge, Alberta, Canada
1 GP-971 N Virgil av	Wil 584	1 GP-1267 N Normandie av	
Wilson, Esther	Los Angeles	Wright, Deborah	Los Angeles
1 GP-4929 Pasadena av	Garv 527	*2 GP-2418 Valentine av	557790
Wilson, Martha	Pomona	Wright, Frances	Los Angeles
1 HE GP-3790 1/2 Wisconsin st		*1 GP-4356 Camero av	
Wilson, Oda	Pomona	Wright, Juanita Marie	Orange
1 Kgn-3790 1/2 Wisconsin st		2 Coml, GP-4426 Melrose av	Wil 5570
Winkelman, Bernice	San Bernardino	Yamada, Ernest	San Juan Bautista
*1 PE-1025 N Vermont st	599465	*2 Coml-247 E First st	
Winklow, Dorothy	Los Angeles	Yoho, Hazel	Walnut Park
2 HE-612 St. Paul av	60039	2 Music, GP-199 Walnut st, Walnut Park	S 8631J1
Wixom, Edith	San Bernardino	Young, Helen	Los Angeles
*1 GP-609 Berendo st		2 GP-1864 W Twenty-second st	75165
Woessner, Christine	Downey	Younkin, Kathleen	Los Angeles
2 HE, GP		2 HE, GP-210 E Forty-second st	S 1959
Woessner, Katharine	Downey	Yturraide, Martin	San Pedro
1 HE GP		2 GP-734 E Fifty-fourth st	
Wood, Helen Lucille	Los Angeles	Zahl, Lillian	Porterville
*Spec Music-452 N Vermont st	Wil 2817	2 GP-625 N Berendo st	59406
Wood, Mrs. Madge E.	Los Angeles	Zimmerman, Helen	Los Angeles
2 FA-2641 Halldale av	Wil 1669	1 GP-1204 W Thirty-fifth st	77125
Woodcock, Mrs. Margaret	Los Angeles		
*Spec Coml-759 N Edgemont av	599426		
Woodell, Josephine	Los Angeles		
2 GP-803 Heliotrope dr	599178		

SUPPLEMENTARY LIST OF STUDENTS, 1919-20

(Names of students registered after the foregoing list was printed)

GRADUATE STUDENTS

Nelson, Thomas Lothian	Berkeley	Newton, Harry Groll	Berkeley
B.S. 1916		A.B. 1905 and M.A. 1906 (Indiana University)	
*1 Com-1941 Blake st		*1 Agr-1501 North st	

UNDERGRADUATE STUDENTS

Hoatson, Chester	Miami, Ariz.	Wyckoff, Barkley Westover	Berkeley
*1 Min-2600 Durant av		*3 CE-1400 Hawthorne ter	Bkly 5179W

STATISTICAL SUMMARY

A. Students in the Depts. at Berkeley—	First half-year only	Second half-year only	Both half-years	Total first half-year	Total second half-year	Total for the year
Fall and Spring Sessions:						
Graduate.....	203	260	610	813	870	1073
Undergraduate.....	1233	964	6721	7954	7685	8918
						<hr/> 9991
Summer Session, 1919.....	....	....	....	....	....	4322
University Farm:						
Graduate.....	....	2	....	....	2	....
Undergraduate.....	....	90	....	....	90	....
						<hr/> 92
B. Students in the Depts. in San Francisco—						
Hastings College of the Law	8	1	52	60	53	.... 61
Medical School:						
First two years (in Ber- keley).....	4	3	100	104	103	.... 107
Last three years (in San Francisco).....	0	0	90	90	90	.... 90
Hooper Foundation for Medical Research.....	0	0	3	3	3	.... 3
Curriculum for Nurses.....	0	0	9	9	9	.... 9
College of Dentistry.....	16	7	212	228	219	.... 253
College of Pharmacy.....	8	0	86	86	94	.... 94
C. Students in the Depts. in Los Angeles—						
Los Angeles Medical Dept...	0	0	53	53	53	.... 53
Southern Branch:						
Junior College Curricula	18	0	207	225	207	.... 225
Teachers' Curricula.....	164	98	1058	1222	1156	.... 1320
						<hr/> 1320
Total.....	1,654	1,425	9,201	10,847	10,634	16,620
Deduct for names entered more than once:						
Graduate students who received their degrees as undergraduates in December, 1919..						79
Students at the University Farm, listed also in the colleges at Berkeley.....						92
Students in the Hastings College of the Law, listed also in the colleges at Berkeley....						2
Students in the Medical School, listed also in the colleges at Berkeley.....						107
Students in the Summer Session, 1919, registered also in the fall session, 1919.....						650
						<hr/> 930
Total, duplicates deducted.....						15,690
Students at the Lick Astronomical Department (6), the Graduate School of Tropical Agriculture (1), and the Scripps Institution for Biological Research (1), are included among graduate students at Berkeley. Summary does not include students in exten- sion courses, the short courses in agriculture, the University Farm School, or the California School of Fine Arts						
Officers and Assistants.....						1515

FRATERNITIES AND CLUBS

MEN

Abracadabra 2616 Virginia st	Bkly 6716	Dwight 2527 Ridge rd	Bkly 6107
Acacia 2717 Haste st	Bkly 586	Filipino Students Association 1822 University av	Bkly 1283
Achaean 2647 Dwight way	Bkly 5831	Hindusthan Nalanda 2026 Center st	Bkly 2796
Al Ikhwan 2508 Haste st	Bkly 767	Japanese Student Club 1739 Euclid av	Bkly 6441
Alpha Chi Sigma 2435 Haste st	Bkly 1980	Kappa Alpha 2501 Ridge rd	Bkly 1335
Alpha Delta Phi 2713 Haste st	Bkly 78	Kappa Sigma 2522 Ridge rd	Bkly 5950
Alpha Kappa Lambda 2701 Hearst av	Bkly 2421	Lambda Chi Alpha 1640 Euclid av	Bkly 7057
Alpha Sigma Phi 2634 Bancroft way	Bkly 1276	Orond 2600 Bancroft way	Bkly 1901
Alpha Tau Omega 2425 LeConte av	Bkly 4334	Phi Delta Theta 2717 Hearst av	Bkly 5770
Bachelordon 2333 College av	Bkly 1722	Phi Gamma Delta 2620 Bancroft way	{ Bkly 8870 { Bkly 8871
Beta Theta Pi 2607 Hearst av	Bkly 5913	Phi Kappa Psi 2625 Hearst av	Bkly 9535
Chi Phi 2529 Hearst av	Bkly 40	Phi Kappa Sigma 1726 Euclid av	Bkly 6706
Chi Psi 2521 Hearst av	Bkly 708	Phi Sigma Kappa 2412 Piedmont av	Bkly 5098
Dahlonaga 2500 College av	Bkly 5942	Pi Kappa Alpha 2646 Dwight way	Bkly 4104
Del Rey 1711 Euclid av	Bkly 8378	Pi Kappa Phi 2614 Dwight way	Bkly 5988
Delta Chi 2200 Piedmont av	Bkly 6601	Psi Upsilon 1815 Highland pl	Bkly 1682
Delta Kappa Epsilon 2330 Telegraph av	Bkly 9227	Sigma Alpha Epsilon 2316 Bowditch st	Bkly 1416
Delta Sigma Phi 2332 College av	Bkly 1184	Sigma Chi 2845 College av	Bkly 62
Delta Tau Delta 2601 Durant av	Bkly 23	Sigma Nu 2610 Durant av	Bkly 7804
Delta Upsilon 2601 Channing way	Bkly 5904	Sigma Phi 2426 Virginia st	Bkly 564

Sigma Phi Epsilon 2521 Channing way	Bkly 9806	Theta Chi 2617 Durant av	Bkly 822
Sigma Phi Sigma 2401 Durant av	Bkly 6504	Theta Delta Chi 2647 Durant av	Bkly 102
Sigma Pi 2627 Ridge rd	Bkly 2541	Theta Xi 1780 La Loma av	Bkly 8716
Tau Kappa Epsilon 2528 Ridge rd	Bkly 3500	Tillicum 2605 Durant av	Bkly 6981
Zeta Psi	2251 College av	Bkly 9107	

COLLEGE OF DENTISTRY

Delta Sigma Delta 1845 Fifth av, S F	Psi Omega 226 Edgewood av, S F
Xi Psi	1248 Fifth av, S F

CALIFORNIA COLLEGE OF PHARMACY

Kappa Psi	900 Ashbury st, S F
-----------	---------------------

WOMEN

Al Khalail 2736 Haste st	Bkly 8680	Kappa Alpha Theta 2728 Durant av	Bkly 9581
Alpha Chi Omega 2421 LeConte av	Bkly 8062	Kappa Delta 2749 Dwight way	Bkly 6444
Alpha Delta Pi 2400 Piedmont av	Bkly 5224	Kappa Kappa Gamma 2725 Channing way	Bkly 7950
Alpha Gamma Delta 2721 Channing way	Bkly 808	Kappa Phi Alpha 2519 Hillegass av	Bkly 477
Alpha Omicron Pi 2721 Haste st	Bkly 8800	Mekatina 2435 Hilgard av	Bkly 6406
Alpha Phi 2714 Ridge rd	Bkly 9098	Norroena 2520 Virginia st	Bkly 7247
Alpha Xi Delta 2739 Bancroft way	Bkly 204	Phi Mu 2429 Channing way	Bkly 4648
Chi Omega 2519 Ridge rd	Bkly 7614	Pi Beta Phi 2709 Channing way	Bkly 8528
Delta Delta Delta 1715 LeRoy av	Bkly 2851	Pi Sigma Gamma 2221 Bancroft way	Bkly 4647W
Delta Gamma 2710 Channing way	Bkly 9520	Rediviva 2526 Hilgard av	Bkly 1441
Delta Zeta 2821 Bancroft way	Bkly 1765	Sigma Kappa 1547 Euclid av	Bkly 6681
Gamma Phi Beta 2732 Channing way	Bkly 7026	Tawanah Camp-Fire 2530 Ridge rd	Bkly 7084
Kaph of Achoth 2835 Warring st	Bkly 6744	Zeta Tau Alpha 1700 Euclid av	Bkly 6789

UNIVERSITY TELEPHONES

UNIVERSITY OF CALIFORNIA (connecting with all telephones on the University system) *Berkeley 7100*

To connect with any University telephone from outside, ask for Berkeley 7100; when the operator at the University answers, give the number desired with the word "Local." For example, "Local 4."

The small figure following local numbers indicates the number of bells to be called. For example, 68" means "Local 68, one bell."

To connect with any University telephone from any University office, it is sufficient to use the word Local with the desired number.

To connect with a telephone outside of the University system give the operator the number as printed in the Telephone Company's directory.

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152	Agricultural Extension
128	Director—Mr. B. H. Crocheron
147	Farm Adviser
151	Mr. W. T. Clarke
122	Stenographers
117	Apiculture
115	Director's Office—Mr. E. O. Voorhies
84	Director, Experiment Station—Mr. H. J. Webber
84	Director, Resident Instruction—Mr. W. Mulford
114	Dean's Private Office—Mr. T. F. Hunt
118	Entomology
134	General Office
130	Horticulture
118	Insect Biology
132	Irrigation
	Irrigation Investigations (Federal Building)—Bkly 4197
145	Landscape Gardening and Floriculture
175	Mailing Department
112	Parasitology
116	Plant Pathology
181	Plant Pathology Investigations
101	Rural Institutions—Mr. E. Mead
119	Scientific Illustration
178	State Home Demonstrations
83	ANATOMY BUILDING
	Dr. H. M. Evans
42	ARCHITECTURE BUILDING
	Mr. W. O. Hays
	BACON HALL
105	Geography, Department of—Mr. R. S. Holway
	Geology and Mineralogy
78	Mr. G. D. Louderback

Local

102	Mr. A. C. Lawson
104	Palaeontology, Department of
66	Mr. J. C. Merriam
	BOALT HALL OF LAW
69	Jurisprudence, Department of—Mr. W. C. Jones
176	Law Association
61	BOTANY BUILDING
	Mr. T. H. Goodspeed
	BUDD HALL
81	Agricultural Education
78	Nutrition
125	Soil Chemistry and Bacteriology
88	University Dairy, Office of
88	Veterinary Science
	CALIFORNIA HALL
14	Alumni Secretary—Mr. D. Peters
30	Office, Student Employment and Bureau of Occupations
26	Appointment Secretary—Mrs. M. L. Cheney; Miss P. McEntyre, Assistant
3	Comptroller's Office
139	Secretary to Comptroller—Miss G. Morton
12	Cashier
29	Accounting Department
5	Accounting Department
4	Accountant—Mr. H. H. Benedict
19	Assistant Accountant—Mr. R. M. Underhill
15	Bill Clerk
7	Purchasing Agent—Mr. N. Hovey
8	Order Clerk
11	Bid Clerk
13	Delivery Clerk
10	Inventory Department
138	Engineer

Local

- 177 Dean of the College of Letters and Science—Mr. T. M. Putnam
 16 Dean of the Faculties—Mr. J. C. Merriam
 2 Dean of the Graduate Division—Mr. A. O. Leuschner
 177 Dean of the Undergraduate Division—Mr. T. M. Putnam
 23 Dean of the Summer Sessions—Mr. W. M. Hart
 9 Dean of Women—Miss L. W. Stebbins
 180 Mailing Room
 28 Music and Drama Committee
 18 President's Office, Assistant to the President
 17 Chief Clerk
 161 Stenographers
 6 Recorder's Office—Mr. J. Sutton
 27 Recorder's Office—Committee Room
 138 Sanitary Engineer
 3 Secretary of the Board of Regents
 30 Student Employment
 23 Summer Session—Dean's Office
 160 University Examiner—Mr. B. M. Woods
 21 University Extension—Mr. L. J. Richardson
 22 University Extension
 150 CAMPANILE
 141 CANYON RANCH
 CHEMISTRY BUILDING
 156 Botany Annex
 148 Chemistry, Department of—Mr. W. C. Blasdale
 83 Chemistry Storehouse
 157 Mr. C. W. Porter
 58 Freshman Chemistry Laboratory
 CIVIL ENGINEERING BUILDING
 36 Civil Engineering, Department of
 47 Dean's Office—Mr. C. Derleth, Jr.
 63 Sanitary Engineering—Mr. C. G. Hyde
 93 State Board of Health—Mr. Ralph Hilscher
 144 Sanitary Engineering Testing Laboratory
 36 Surveying—Mr. F. S. Foote, Jr.
 54 Testing Laboratory—Office
 108 Testing Laboratory—Shops
 187 Cement Room
 31 University Photographer
 82 CONSERVATORY
 68¹ DRAWING BUILDING
 Mr. H. Kower

Local

- EAST HALL
 80 Zoology, Department of—Mr. J. F. Daniel
 168 State Board of Health—Parasitology
 ELECTRIC LIGHT AND POWER PLANT
 56 Power Plant
 ENTOMOLOGY BUILDING
 52 State Food and Drug Laboratory
 154 Insecticide and Fungicide Control
 35 FACULTY CLUB
 FERTILIZER CONTROL LABORATORY
 64 Agricultural Chemistry
 GILMAN HALL
 142 Chemistry, Dean's Office—Mr. G. N. Lewis
 159 Mr. W. J. Cummings
 128 Mr. E. D. Eastman
 111 Mr. J. H. Hildebrand
 49 Mr. M. Randall
 140 Mr. E. O'Neill
 38 GREEK THEATRE
 HARMON GYMNASIUM
 70 Armory
 153 Physical Education, Department of
 167 Mr. F. Kleeberger
 169 Training Quarters
 HEARST HALL
 96 Physical Education for Women, Department of—Miss R. Elliott
 34¹ HERBARIUM
 HILGARD HALL
 79 Agronomy
 121 Citriculture
 87 Forestry
 126 Genetics
 118 Pomology
 60 Soil Technology
 60 U. S. Drainage Investigations
 120 Viticulture
 120 Zymology
 68² HOME ECONOMICS BUILDING
 Miss M. F. Patterson
 Mrs. A. F. Morgan
 HYGIENE AND PATHOLOGY BUILDING
 71 Pathology and Bacteriology—Department of—Mr. F. P. Gay
 Mr. W. H. Barnes
 85 Hygiene Museum—Dr. J. N. Force
 129 State Hygienic Laboratory
 72
 109 INFIRMARY
 182 Infirmary Annex

Local

LIBRARY

- 55 Bancroft Library
 82 Mr. H. E. Bolton
 170 War History Dept. of the California
 Historical Survey Commission
 106 American Association for the Advance-
 ment of Science
 51 Bindery Room
 74 Booth Phone (not public)
 50 Education, Department of
 39 Librarian, Emeritus—Mr. J. C. Rowell
 90 Librarian—Mr. H. L. Leupp
 91 Loan Desk
 89 Accessions Department—Mr. S. B.
 Mitchell
 92 Reference Room
 124 Reserve Book Room
 158 Library Science
 164 President, Emeritus—Mr. B. I.
 Wheeler
 174 Doheny Foundation—Mr. G. W. Scott
- MECHANICS BUILDING**
 191 Marine Engineering and Naval Archi-
 tecture
 40 Dean's Office—Mr. C. L. Cory
 77 Mechanical and Electrical Engineering
 Department—Mr. A. B. Domonoske
 62 Mechanics Shops
 76¹ Mechanics Basement
 76² Motor Vehicle Department
 191 Mechanics Annex
 191 U. S. Shipping Board
- MILITARY SCIENCE BUILDING**
 135 Military Science, Department of—Col.
 J. T. Nance
- MINING BUILDING**
 57 Mining, Department of
 53 Dean's Office—Mr. F. H. Probert
 166² Mr. W. S. Morley
 166¹ Mr. W. S. Weeks
 34¹ Herbarium, Dept. Botany
 34² Mr. E. A. Hersam
 146 U. S. Bureau of Mines—Mr. L. H.
 Duschak
 181 U. S. Bureau of Mines Laboratory
 45 MUSEUM OF GREEK SCULPTURE AND
 ANTHROPOLOGY
 65 MUSEUM OF VERTEBRATE ZOOLOGY
 28 MUSIC AND DRAMA COMMITTEE
 143 MUSIC BUILDING
 Mr. E. G. Stricklen
- NORTH HALL**
 110 Graduate Manager, A. S. U. C.—Mr.
 L. A. Nichols

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- 43 OBSERVATORY
 Astronomy, Department of—Mr. R. T.
 Crawford
- PATHOLOGY LABORATORY**
 129 Hygiene, Department of
 71 Pathology, Department of
 85 Bacteriology, Department of
 72 State Hygienic Laboratory
- PHILOSOPHY BUILDING**
 37 Psychology, Department of
- POWER PLANT**
 59 PRESIDENT'S HOUSE
 41 PRINTING OFFICE
 Mr. J. W. Flinn
- 127 RUDOLPH SPRECKELS PHYSIOLOGY
 LABORATORY
 127 Biochemistry, Department of
 127 Physiology, Department of
- SOUTH HALL**
 155 Physics, Department of—Mr. E. P.
 Lewis
 172 Mr. R. S. Minor
- 99 STOREHOUSE
 98 SUPERINTENDENT OF GROUNDS AND
 BUILDINGS—Mr. E. A. Hugill
 107 Residence
 67 Asst. Superintendent—Mr. J. W.
 Aljets
 100 Superintendent's Office
 94 MEN'S SWIMMING POOL
 108 UNIVERSITY DAIRY
 31 UNIVERSITY PHOTOGRAPHER
 UNIVERSITY PRESS
 95 Office—Mr. O. M. Washburn
 88 VETERINARY SCIENCE LABORATORY
- BENJAMIN IDE WHEELER HALL**
 149² Economics—Mr. I. B. Cross
 46¹ English—Mr. A. G. Brodeur, Secy.
 168 French—Mr. R. T. Holbrook
 97² German—Mr. H. K. Schilling
 97¹ Greek—Mr. G. M. Calhoun
 149¹ History—Mr. W. A. Morris, Secy.
 44² Italian—Miss M. T. Tommasini
 97¹ Latin—Mr. W. A. Merrill
 44¹ Mathematics—Mr. M. W. Haskell
 179 Oriental Languages—Mr. E. T. Wil-
 liams
 48 Philosophy—Mr. C. H. Rieber
 75 Political Science—J. R. Douglas, Secy.
 46² Public Speaking—Mr. M. C. Flaherty
 44² Spanish—Mr. R. Schevill

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REGISTER—PART XVII

**SUMMARIES OF OFFICERS AND STUDENTS,
1919-20**

JULY, 1920

UNIVERSITY OF CALIFORNIA

SUMMARIES OF OFFICERS AND STUDENTS, 1919-20

JULY, 1920

SUMMARY OF STUDENTS 1919-1920

NOTE.—In the columns showing number of students, the upper left-hand figures refer to men, the lower to women; the figures on the right side are totals.

TABLE I

Students in the Academic Departments, at Berkeley*; comprising the Colleges of Letters and Science, Engineering, Commerce, Agriculture, and Chemistry. Includes undergraduate students in the College of Letters and Science who have also registered in the Schools of Jurisprudence, Architecture, and Medicine. Does not include students in these schools who have already taken the Academic Bachelor's degree unless they are registered for advanced academic degrees in the Graduate Division. No segregation of students in the School of Education is attempted. Such students in all cases are registered in the Academic Departments at Berkeley.

COLLEGES	SENIORS 4th year	JUNIORS 3rd year	SOPH. 2nd year	FRESH. 1st year	SPEC.	TOTAL UNDER- GRAD.	GRAD. STUD.†	TOTALS
Letters and Science (General)	382 627 1009	287 707 994	344 804 1148	437 1262 1699	83 168 251	1533 3568 5101	315 523 838	1848 4091 5939
Pre-Arch.....	12 4 16	7 4 11	19 5 24	26 10 36	4 1 5	68 24 92	0 0 0	68 24 92
Pre-Legal.....	20 1 21	59 5 64	142 16 158	188 19 207	10 2 12	419 43 462	0 0 0	419 43 462
Pre-Med.....	28 7 35	78 19 97	115 17 132	137 29 166	9 2 11	367 74 441	0 0 0	367 74 441
Totals L. & S.....	442 639 1081	431 735 1166	620 842 1462	788 1320 2108	106 173 279	2387 3709 6096	315 523 838	2702 4232 6934
Commerce.....	62 15 77	120 23 143	179 54 233	270 81 351	45 3 48	676 176 852	8 1 9	684 177 861
Agriculture.....	91 4 95	128 9 137	137 10 147	192 12 204	28 2 30	576 37 613	39 4 43	615 41 656
Mechanics.....	57 0 57	104 1 105	206 0 206	260 0 260	29 0 29	656 1 657	20 0 20	676 1 677
Mining.....	30 0 30	47 0 47	56 0 56	86 0 86	13 0 13	232 0 232	10 0 10	242 0 242
Civil Engineering.....	25 0 25	31 0 31	61 0 61	93 0 93	8 0 8	218 0 218	8 0 8	226 0 226
Chemistry.....	18 2 20	46 3 49	78 0 78	93 0 93	11 0 11	246 5 251	32 3 35	278 8 286
Totals.....	725 660 1385	907 771 1678	1337 906 2243	1782 1413 3195	240 178 418	4991 3928 8919	432 531 963	5423 4459 9882

Total, graduates and undergraduates, deducting ⁽⁴⁸⁾ _(41 89) for graduates who received their degrees as undergraduates, December, 1919.....	5,410 4,418	9,828
Students in Summer Session, 1919.....	937 2,505	3,442
Total, deducting ⁽³⁴⁴⁾ _(804 1148) for those who registered both in the Summer Session and the fall session of 1919.....	6,003 6,119	12,122

*In addition to the students (12,122) enumerated in this table, there were 139 students holding the A.B. degree or its equivalent who received instruction at Berkeley in professional schools as follows:

Jurisprudence.....	92
Medicine.....	44
Architecture.....	3

Thus the total number of students in the Berkeley Departments for 1919-20 aggregated 12,261.

†Includes ⁽⁰⁾ _(2 2) graduate students in the Hooper Foundation and ^(3 4) _(3 4) graduate students in the Lick Observatory, a part of whose work during the year was carried on in Berkeley.

SUMMARY OF STUDENTS, 1919-1920—(Continued)

TABLE II

STUDENTS IN PROFESSIONAL COLLEGES AND SCHOOLS
(Berkeley and elsewhere)

	FIFTH	FOURTH	THIRD	SECOND	FIRST	SPEC.	TOTALS
School of Architecture (Berkeley).....	.....	.....	.....	.....	.....	.....	2 1 3
School of Jurisprudence (Berkeley).....	.....	.....	24 3 27	34 3 37	106 15 121	8 3 11	172 24 196
Medical School† (S. F. and Berkeley).....	16 4 20	28 0 28	35 7 42	48 8 56	42 10 52	.....	159 39 198
Hastings College of the Law (San Francisco).....	.....	.....	16 0 16	4 2 6	24 1 25	14 0 14	58 3 61
College of Dentistry (San Francisco).....	.....	19 0 19	37 1 38	42 0 42	133 3 136	.....	231 4 235
California College of Pharmacy (San Francisco).....	.....	0 0 0	0 0 0	36 5 41	56 10 66	.....	92 15 107
Los Angeles Medical Depart- ment (unclassified).....	.....	.....	.....	.....	.....	.....	53 0 53
Totals.....	16 4 20	47 0 47	112 11 123	164 18 182	361 39 400	22 3 25	767 86 853

In combining the results given in tables I and II as above, deductions for duplication are made as follows:

4 L. & S. { 49	4 L. & S. { 29
Juris { 7 56	Med. { 9 38
3 L. & S. { 29	Grad. { 5
Juris { 7 36	Med. { 0 5
Special { 2	
Juris { 1 3	

GRAND TOTAL OF STUDENTS, ALL DUPLICATES DEDUCTED..... { 7,001
6,953 13,954

†The classes of the first and part of the second year of the Medical School are conducted in Berkeley; other instruction is given in San Francisco. Included in this summary of students in the Medical School are { 106
14 120 } students holding the A.B. degree or equivalent academic degree, of whom { 30
9 39 } are in the Berkeley classes and { 76
5 81 } are in the San Francisco classes.

SUMMARY OF STUDENTS, 1919-1920—(Continued)

TABLE III

SUMMARY ACCORDING TO LOCATION OF UNIVERSITY DEPARTMENTS

At Berkeley: Colleges of Letters and Science, Commerce, Agriculture, Chemistry, and Engineering, and Schools of Jurisprudence, Education, Medicine (first year and part of second year), and Architecture.

Undergraduate Students.....	{	5,031	
		3,928	8,959
Graduate Students.....	{	427	
		531	958
Students in Professional Schools holding A.B. degree.....	{	122	
		17	139
Total graduates and under- { 48			
graduates deducting..... { 41 89 }			
for graduates who received their degrees as undergraduates in December, 1919.....	{	5,532	
		4,435	9,967
Summer Session, 1919.....	{	937	
		2,505	3,442
Grand total (deducting { 344			
students registered also in the Fall session).....	{	804 1148 }	
		6,125	
		6,136	12,261

At San Francisco: Medical School (second year in part, and third and fourth years), The Hooper Foundation, Hastings College of the Law, College of Dentistry, California College of Pharmacy.

Total.....	{	444	
		47	491

At Los Angeles:

Southern Branch	{	133	
Junior College Department.....		117	250
L. A. Medical Department.....	{	53	
		0	53
Summer Session, 1919.....	{	240	
		652	892
Total.....	{	426	
		769	1,195

Other Points:

Mt. Hamilton—Lick Astronomical Department.....	{	4	
		3	7
La Jolla—Scripps Institution for Biological Research.....	{	2	
		0	2
Riverside—Graduate School of Tropical Agriculture.....	{	1	
		0	1
Total.....	{	7	
		3	10

SUMMARY OF STUDENTS, 1919-1920—(Concluded)

TABLE IV
NOT ENUMERATED IN THE FOREGOING TABLES

(Instruction in the departments herein referred to does not, in general, lead to University Degrees).

University of California, Southern Branch, Teachers' Curricula.....	{ 64 1061	1,125
Note.—For detailed statistics concerning students in the several curricula for the training of teachers see the Announcement of the Southern Branch, published August, 1920.		
University Farm School, Davis.....		727
California School of Fine Arts, San Francisco.....		727
Lick-Wilmerding Schools (boys).....	502	} Total..... 716
Lick-Lux Schools (girls).....	214	
University Extension:		
*Bureau of Class Instruction.....		10,750
Correspondence Courses.....		3,042
*Lectures.....		107,539
University Extension in Agriculture:		
*Correspondence Courses.....		5,625
*Farmers' Meetings.....		206,475
*Lectures.....		38,868
Agricultural Clubs.....		1,838
Other Lectures:		
*Lectures on Rural Schools.....		18,575
*Poultry Institute.....		309

*The figures here given represent total attendance during the year 1919-20 not the number of individuals receiving instruction.

SUMMARY OF OFFICERS, 1919-1920

GENERAL ADMINISTRATION:

Regents of the University.....	23
Directors and other Administrative Officers.....	30
Assistants to Administrative Officers.....	6- 50

INSTRUCTION AND RESEARCH:

ACADEMIC COLLEGES:

Deans and Other Administrative Officers.....	25
Professors (including 10 Emeritii).....	121
Associate Professors.....	53
Assistant Professors.....	88
Instructors.....	96
Lecturers.....	31
Departmental Assistants.....	97
Librarians.....	5
Curators of Museums.....	7
Readers.....	1
Other Assistants (Clerks, Helpers, Mechanics, etc.).....	26
Fellows.....	38
Physicians and Dentists.....	12
Botanical Collectors.....	1-601

UNIVERSITY FARM:

Professors.....	1
Associate Professors.....	3
Assistant Professors.....	4
Lecturers.....	1
Instructors.....	9
Librarians.....	1
Other Assistants (Clerks, Helpers, Mechanics, etc.).....	1- 20

LICK OBSERVATORY:

Administrative Officers.....	1
Astronomers.....	7
Fellows.....	5
Assistants.....	3
Instructors.....	1
Other Assistants (Clerks, Helpers, Mechanics, etc.).....	3- 20

CALIFORNIA SCHOOL OF FINE ARTS:

Administrative Officers.....	2
Professors.....	4
Associate Professors.....	3
Instructors.....	2- 11

HASTINGS COLLEGE OF THE LAW:

Administrative Officers.....	1
Professors.....	3
Assistant Professors.....	5- 9

MEDICAL SCHOOL:

Administrative Officers.....	2
Professors.....	11
Associate Professors.....	5
Assistant Professors.....	31
Lecturers.....	7
Instructors.....	52
Assistants.....	92
Fellows.....	2-202

HOOPER FOUNDATION:

Administrative Officers.....	1
Professors.....	1
Associate Professors.....	2
Instructors.....	1
Fellows.....	7- 12

COLLEGE OF DENTISTRY:

Administrative Officers.....	1
Professors.....	7
Associate Professors.....	1
Assistant Professors.....	3
Lecturers.....	2
Instructors.....	31
Assistants.....	2
Librarians.....	1- 48

CALIFORNIA COLLEGE OF PHARMACY:

Administrative Officers.....	1
Professors.....	3
Associate Professors.....	1
Assistant Professors.....	2- 7

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SUMMARY OF OFFICERS, 1919-1920—(Concluded)

SCRIPPS INSTITUTION FOR BIOLOGICAL RESEARCH, LA JOLLA:

Administrative Officers.....	1
Professors.....	1
Associate Professors.....	1
Assistant Professors.....	1
Librarians.....	1
Curators of Museums.....	1
Assistants (Clerks, Helpers, Mechanics, etc.).....	3- 9

CITRUS EXPERIMENT STATION, RIVERSIDE:

Administrative Officers.....	1
Professors.....	8
Assistant Professors.....	2
Instructors.....	3
Assistants.....	3- 17

UNIVERSITY EXTENSION:

Administrative Officers.....	11
Assistants to Administrative Officers..	25

Extension Teachers.....	132
Extension Readers.....	41
Other Assistants in Instruction.....	12
Lecturers.....	100-

UNIVERSITY EXTENSION IN AGRICULTURE:

Professors.....	2
Associate Professors.....	3
Assistant Professors.....	15
Instructors.....	26
Assistants.....	36-
	141

Deduct for names counted more than once.....	3
	138

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BERKELEY, July 15, 1920.

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